

Docket No.  
DEX-0271

# Declaration and Power of Attorney For Patent Application

## English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

### COMPOSITIONS AND METHODS RELATING TO COLON SPECIFIC GENES AND PROTEINS

the specification of which

(check one)

☒ is attached hereto.

☐ was filed on \_\_\_\_\_ as United States Application No. or PCT International

Application Number \_\_\_\_\_

and was amended on \_\_\_\_\_

(if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed

\_\_\_\_\_  
(Number)

\_\_\_\_\_  
(Country)

\_\_\_\_\_  
(Day/Month/Year Filed)

☐

\_\_\_\_\_  
(Number)

\_\_\_\_\_  
(Country)

\_\_\_\_\_  
(Day/Month/Year Filed)

☐

\_\_\_\_\_  
(Number)

\_\_\_\_\_  
(Country)

\_\_\_\_\_  
(Day/Month/Year Filed)

☐

I hereby claim the benefit under 35 U.S.C. Section 119(e) of any United States provisional application(s) listed below:

60/252,059

(Application Serial No.)

November 20, 2000

(Filing Date)

(Application Serial No.)

(Filing Date)

(Application Serial No.)

(Filing Date)

I hereby claim the benefit under 35 U. S. C. Section 120 of any United States application(s), or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, C. F. R., Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

(Application Serial No.)

(Filing Date)

(Status)  
(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)  
(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)  
(patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. *(list name and registration number)*

Nathan P. Lettis, Reg. No. 36,381  
of the firm  
diaDexus, Inc.  
343 Oyster Point Boulevard  
South San Francisco, CA 94080



26259

PATENT TRADEMARK OFFICE

Send Correspondence to: **Licata & Tyrrell P.C.**  
**66 East Main Street**  
**Marlton, N.J. 08053**

Direct Telephone Calls to: *(name and telephone number)*  
**Kathleen A. Tyrrell, 856-810-1515**

|   |      |
|---|------|
| Full name of sole or first inventor<br><b>Roberto A. Macina</b> |      |
| Sole or first inventor's signature                              | Date |
| Residence<br><b>4118 Crescendo Avenue, San Jose, CA 95136</b>   |      |
| Citizenship<br><b>Argentina</b>                                 |      |
| Post Office Address<br><b>Same as above</b>                     |      |

|   |      |
|---|------|
| Full name of second inventor, if any<br><b>Herve E. Recipon</b> |      |
| Second inventor's signature                                     | Date |
| Residence<br><b>85 Fortuna Avenue, San Francisco, CA 94115</b>  |      |
| Citizenship<br><b>France</b>                                    |      |
| Post Office Address<br><b>Same as above</b>                     |      |

Full name of third inventor, if any

**Jason Pluta**

Third inventor's signature

Date

Residence

**1240 Dale Avenue, Apt. #15, Mountain View, CA 94040**

Citizenship

**US**

Post Office Address

**Same as above**

Full name of fourth inventor, if any

**Malavika Ghosh**

Fourth inventor's signature

Date

Residence

**1733 Via Lugano, San Jose, CA 95120**

Citizenship

**India**

Post Office Address

**Same as above**

Full name of fifth inventor, if any

**Yongming Sun**

Fifth inventor's signature

Date

Residence

**869 S. Winchester Blvd., Apt. 260, San Jose, CA 95128**

Citizenship

**China**

Post Office Address

**Same as above**

Full name of sixth inventor, if any

**Chenghua Liu**

Sixth inventor's signature

Date

Residence

**1125 Ranchero Way #14, San Jose, CA 95117**

Citizenship

**China**

Post Office Address

**Same as above**

## SEQUENCE LISTING

<110> Macina, Roberto  
 Recipon, Herve  
 Pluta, Jason  
 Ghosh, Malavika  
 Sun, Yongming  
 Liu, Chenghua

<120> Compositions and Methods Relating to Colon Specific Genes and Proteins

<130> DEX-0271

<150> 60/252,059

<151> 2000-11-20

<160> 137

<170> PatentIn version 3.1

<210> 1

<211> 453

<212> DNA

<213> Homo sapien

<400> 1  
 gggcctttta aaaaaaattt taaaatttaa ccccttttcc ccaaatttaa aaattaaatt 60  
 gtttaattag gaccaccttt ttgtttatcc atttatctcc tctttattcc aaattatgct 120  
 ataagtaatt gaaaatgtaa ctactaatta ttggtaatth aaatagaaga ttatttgatt 180  
 aaatagtaaa ccatatggta tagagtctac attatggaat agaattgtga tgaatgaagat 240  
 cctttcccat accctttttt ctataatccg gagaatgaga tattcaatct ggtatttgag 300  
 attcttagtc ataattgtgg gtaaccttta gtcactaac tcttttatat gtccttggga 360  
 tgttgaaagt acctcgggag cggacacgct aagccgaatc tgcggaatca tcacacgggg 420  
 gcggcgagct gatctgaggg gcaaatggcc ata 453

<210> 2

<211> 228

<212> DNA

<213> Homo sapien

<400> 2  
 atacttatac tatggcaggc taactgataa ggaatataat gggggctgtg gcattcattt 60  
 aatgaacatg ttaaaaaact gttatgtggc aggcactggg gcttgggatt gggaatacca 120  
 tctacctatc tctgcttaca ggattcatct agggggggcag atggacaaat aaagaagtaa 180  
 tttcagtatg atatgttaaa tgccatgata aagtaagtaa gtacctgc 228

<210> 3

1001583 112001

<211> 689  
 <212> DNA  
 <213> Homo sapien

<400> 3  
 tttttttttt tttttttttt gtttttgtgt tggggtgcga acatcaccgg acagtagcca 60  
 gatccccagt tgtaccgtct cgaccactag aacgccccca gttgctgaat tcgcttagcg 120  
 tgtcgcgcgc aggtaccccc tccatagtcc caacagctaa cctctctgtt tactggacat 180  
 tcccgcgtgg atctaatacc aaacttttagc agtctaactg ctaactcagc atgataatca 240  
 tgaccacatt cctggctcag aacaacatgg tataatgttt gtcaccagtg atataataac 300  
 atacaacata tgacattaca ttccaacaag tgaatttaca cttttcatcc ccattccagt 360  
 gcattgaagc aacgttaaaa acgcttggtt cttcacgtgg acctctgggt tttacaacat 420  
 ttcagttgct aacatggtaa ggcacacaca cacttgggag ccattgtgtc acttttcatc 480  
 acagcacacc ctgacacata acgcaaacat tacatttctg ttccatcttt tcattacaca 540  
 tcaggaccat actaaacac aatcattcat catttaccat aacacatcac acgttacaaa 600  
 ggaaactcac tcagcaacat aaacaaacgg atattcactt gaactcttct cttggttgca 660  
 atgattttct attaattagt agtacctga 689

<210> 4  
 <211> 661  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (616)..(616)  
 <223> a, c, g or t

<400> 4  
 ccccgccag gtaactcaagc ttggttcttt atcaagctta ttttgcctat tttgggaccc 60  
 ttaaaatgcc acataaattt tagcatcagc ttgccaatat ctggaaagaa agcaagggtga 120  
 aatttgggtta gggattgtgt caagtctgta tatccttttg gggatgaatca ccattctgaa 180  
 aatattaatt ctcccaataa atgagtataa aatgtctttt catttggtta ggtattttta 240  
 ttctgtataa cattattttg tgggttccag atgattgggt tttcagttct ttgtgtaaat 300  
 ttattcctaa gtattttatt tattttcgtt gtattgtaaa tggaaattgct ttcccttaatt 360  
 ccatttctgg attgttcatt gcaactgtat agacatacaa tagaatattt tgaattgaac 420  
 ttacatctcg caaccttgaa aaactcattt attatatcta agaggctctt agtcgatttt 480  
 ttatgatttt ctgcataaca gatcatgtca ttataaatta gggaagatat aattttaatt 540

1001833.12001

tttccctttc cattttacat gccttttatt tcatatttct acaaatttat cttattagag 600  
 atgctagtagc ctccgncggg accaagctaa agcgaatctg gagatatcaa tcaactgggg 660  
 g 661

<210> 5  
 <211> 167  
 <212> DNA  
 <213> Homo sapien

<400> 5  
 acccttgccc taacgtgaac tggcagtggt accattgcat tatgcaagta atagtgttac 60  
 aagattgcaa ggtctccatc gaattccatc acaaagtta aaagcaattt aaaattactc 120  
 aaatcactta aaatcacttt gcgtgggtgat tccaaattgg tacctgc 167

<210> 6  
 <211> 531  
 <212> DNA  
 <213> Homo sapien

<400> 6  
 tcagggtactc cagcctgggc cccaggcca ggaccctgtc tcgggagaaa aaaaaaggct 60  
 ggcaatcccc taacaattaa ggtttatttc caaggctgga aaaaaggctt cttacaacatc 120  
 cgattttttc ttcagagccg gtaaaaggac caattcggtta attccaatc ggtttaatct 180  
 aacggcatag agggataaca cattaaaact tcttagagta ggattggtaa atttttttaa 240  
 attagacca atccattggt cctttccaat atatagggac tattactttt caatttggac 300  
 caggtaacaa ccaagtattg tacttgggcc gggaacaagg ttaaggcgga attcggagag 360  
 atttccatta aaactggggg gccggttcaa gatggatttt aaaggggccc aatttcggcc 420  
 caattaggag gtggtattac atttactggt gcggtggttt acaacggtcg gggatgggga 480  
 aaacccgggg ggtaccaat ttaatggtt ggagaaatcc ttaagaaaa a 531

<210> 7  
 <211> 877  
 <212> DNA  
 <213> Homo sapien

<400> 7  
 tgtttttcag aggatccacg ccttaggtgg gccccgggtt tccccacgc gtttttcgcc 60  
 gccctgagt ttatagctcc ctttaggcgc attggccctt ttatgccttc tcgcgggccc 120  
 cccctgtggt gggatttcgc gaattcgttt ttgtcgcccc ccccgccacg gttcgtggc 180  
 ggagcggcgg gttttccctc gcgcgggcca caatggggct cgaggccctc gggccagta 240  
 taccgcccc cctgaacccc gcctgtttcc cccctgctgg acgcttctgc ttttggcccc 300

```

tggcacagtt tttcccccc cggtttttcg ttttcggggt caccctttgc ccaggacact      360
cgtgaaatct ttttaagagc tctcatctc cttagatggc catcgactca ttcattgggcc      420
tttggatgtc tctctatcct gctgctctgg ttagaggcagt ctacagtgtg agcaccacaag      480
gggtaacaac cagaatggct tcgctgaaat cctgcttcat gttgagtaac ttctcttttt      540
acttgttgct cggaagctgt cccaccttgc gtgactcata actaacatgc atgactgtat      600
atgcactaac attacattat aaaaatgacc actaacggcg cgggtaacg ggcaacttatg      660
gataaacgta tctcacttta acacagaggt agtcaccgaa ctactagt atcctcgaaa      720
cactgtttgg ccatgctatg aggaataatg gtggcactta ctactcttc cgaggagtta      780
tactgaatt acgggtatag gattgctcgc ctaacatgag gtttataaag ctacaccttc      840
tttgcatttt gctgatgtct agcacaccat atgatgt      877

```

```

<210> 8
<211> 327
<212> DNA
<213> Homo sapien

```

```

<400> 8
acttgttctt tatacttaaa gaaactggga gtttctggat tcattggccat tccataaaat      60
tgggaggcct cagacaagtc ttttagcatc cctgggcgct taatttccat ttctgtaaaa      120
agtcaggagt gccttagatg atctccaatt tctctccac tctgatgttc tcatcctatg      180
ctcccgtagt tcatttcttc aatgtcgtgt tgcctctaaa tcaggaaata tacctggcca      240
agaagaccaa ggattttacc tgtattttatt ttattatttt cgacagctcg accatccatc      300
gtgtttctat ttttccaggt aagagcc      327

```

```

<210> 9
<211> 495
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (317)..(319)
<223> a, c, g or t

```

```

<220>
<221> misc_feature
<222> (326)..(326)
<223> a, c, g or t

```

```

<220>
<221> misc_feature

```



<222> (328)..(328)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (337)..(337)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (424)..(424)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (426)..(426)  
 <223> a, c, g or t

<400> 9  
 cggtgtgttaa acgaccggcc ccgtgaatat gtaataccga ctcccctatt agggcggaata 60  
 tgggcccctc tatgatgcc a gctcgagcc ggccccccc tgtgatagga tatctgccag 120  
 aattccggct tatgcgttg tccccggccc gaggttagga aaccgtgttt cctatcccaa 180  
 actggaccct agagataaaa gggaaagaga tgtggctttt tgtgatattc tacaccccga 240  
 ccactttattg tattctctgt taaataccaa gtatgtatgt atgtaaagtg tttttgtcct 300  
 aatgttgcta ctcccannt ggcaananga aacacanaca atataaacac acacaaaacg 360  
 gaccocaacac cgaagaaagga aaaaaagaaa aagcagcgcg tgtgttacac tgctgcccc 420  
 gtgmgncggg ccggcttcag aaaggccgga atttccaagc acacttgggg ggccggtaca 480  
 ctagtgggat tccgg 495

<210> 10  
 <211> 734  
 <212> DNA  
 <213> Homo sapien

<400> 10  
 cagttgaagt ggccgtgatt tattgcttct taggggatgg ccctctagtc atgctggcgg 60  
 cctcagtgta tggatttgca gattcgggtt cgacggcagc acgtgcagta catatttccc 120  
 attactggat gggagcagtg tcaagtttaa gttgtaagaa gaggagagat acaacatggt 180  
 actgcagtca tcactgcaat aagattgaat aagtaaaagg gacaacgact aaaagtttct 240  
 gtgagaaatgg tctcataatga aaatcgtttt gataacaata ttggcacat tattctcttt 300  
 taaaatttac acottaatat agctaataaa ttatagtgtc ctgaattgca aggggctgtg 360

100010003.112001

cgaaaatgta gaaaacgaga tgcgttgagg tagtgaagtg aaaggatgca ctgactactc 420  
 agctgatgtg gacctggac cgagtttggt aagcatgttg atgaacctgt gatgatgcct 480  
 catctgctaa attgggaact gaatttgatt ttactagaaa atgaaaatga tgtgtctgtg 540  
 agagcataaa actgagcaaa tgcatttgaa aacattattt gaccttgctt ctttgggcat 600  
 ggcatttcac tggctactac taccagccct tgaaatttgc agtatgacaa attaagtaac 660  
 aaatacgaaa agagataatt tctaaaacta tgtttcactg agaaaactct agatactagg 720  
 ctgtggggtg atgt 734

<210> 11  
 <211> 539  
 <212> DNA  
 <213> Homo sapien

<400> 11  
 tgtaagatta tttttgaatg tttactattc ccaagtatta ttctctaatt gaattttgag 60  
 aaaattgatt ttttgaggat accatggaaa actggggatg tgaaacattc ttaogetcta 120  
 gtgcaataaa atatgactca agtcaaccac atcctacttt caaaaagcct tcaccagaaa 180  
 agggggcaac ttctcatcat ctgattcaga gaaacagaca tgttagataa taatcccaga 240  
 gtaattagtc ttcagcaaaag atgaagacta tttgtctgtc ttattcaaat tccacagtct 300  
 tgattactat cgttttataa gtctcaaaag taggtaattg tagtccatcc attttattct 360  
 ttttcaaagt tttgtctatt ctacaacttc agcagttcca tttagagttt agaactcagct 420  
 tgtcaatttc ttaaaaaata attgctggga tttgtttaga gattgcactg aatctgtaga 480  
 tcaatatgga gagaattgac atcttaacaa tattgagtct tgtgacccat gaccatggt 539

<210> 12  
 <211> 733  
 <212> DNA  
 <213> Homo sapien

<400> 12  
 acaatacctt ttgattact gcagcttcat aatatgtttt gaaatcagga aatatgagca 60  
 ctccagctta gttactcttt ttctgttttt ggctaatttg ggccccacaa aattccaaat 120  
 aaatatattg ttaacttttt ccttttttgc aaaaaattgc tgttgagaaa ttgattgagg 180  
 ttgtattgac tctgtaaata agcaaggat actatggaca tcttaactat gttagtgttc 240  
 caagccatga acctggata tctttctata tatttgtggc ttctgttaatt tcttttaaaa 300  
 atatttttga gatttcagca caccaagtct ttcacctctc tgggttagatt tacatgtaag 360  
 tatttttttt ctctgtgtgt ctattacaat gaaatagttt tgtaatttct ctttactgat 420

tgatgactat tcatgtacag aaatgcaact gatttcttca tgttgatttt gcacctggca 480  
 atgttgctgt atttgtttat tagttctaac aggtttttgtt gttgtcgttg ttgttgattt 540  
 cattattggt ggggagaggt gtttctttct aatttectac ttataagatt gtgctatcta 600  
 gtacacagaga ttatttttact tcttcttttc cagtttagat gtcttttatt tcttgtttct 660  
 tgtcttattg ttatgggttag aatttcccat agtatgttga atagaagtgg cggagtggga 720  
 attcttgctt tgt 733

<210> 13  
 <211> 934  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (493)..(493)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (574)..(574)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (706)..(706)  
 <223> a, c, g or t

<400> 13  
 gtattttgtg gtaatttgtg ggatgtgagc gggttaccag gtggcacccg gacagctttt 60  
 gccctggggt cgccagggt ggtaccgggc ttgggtcccc ttgttactgc cccccctttg 120  
 cttggaatcc ggtttctaac ggtccccccg gcaagggtat tccgcccggg ggacaaagtg 180  
 ggtgttctct ttccccaaaa aaaaaaaaaa aaaggcaact ttgctgctta aattggggtt 240  
 ttaataaccc tttttacttt tattgtgggt gattgaaaat ttgggttttc atttaaccac 300  
 cctatacaac gggaattttt aaattcectt cctacattat tcatattgg gcctttccct 360  
 caacttatta attttaacta ggattaatag gggactttac agagaaaggc caaattattt 420  
 gtgattccca attattcccc aattaataag gcgtgctctt taaacatttt tactatttgg 480  
 acgtcatttt aantctctct cttttcttta aaacacttct ttaagcgtt actacaccat 540  
 tttaccatta ggettaggcg ccacgtggat taanagaatt tcataggtea ccttcggcgc 600  
 gcgggagaac caacagctat aagcccgaga atttcgtggc agagatttct cccattcaac 660  
 agttgtgggg gcgccggcct cggaagcaat tggctctttt agagangggg cgccaatttt 720

1000183.112001

```

tcggcccat aataggggtga ggttcggtaa ttccacaatt ctcagctggg cgcgcggtcg 780
tgttttcac acacogtgtc ggtggacttg ggtaaaaaac ccogtgggcg ggtttacccc 840
aaattttaat tcggccttgg cgaggcacat tccccctttt ttggaaaaa aacaccata 900
taccataagg taaactcaat tcgggaaaaa cccc 934

```

```

<210> 14
<211> 559
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (187)..(522)
<223> a, c, g or t

```

```

<400> 14
aatggaaca aatgaaaaca gctggcacat ttggtagtg aacactggg agttttccct 60
gtacttgtat tccaaactct ctatgattta aaaaatatcc aagtataata aactgttata 120
aagaactgc acaccccaca tttttcgata atatagcaga aatataaaat tacacataat 180
ataaaaaaaa nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngtgtggga ggaagtaaa 540
acaactgagg ttggaactt 559

```

```

<210> 15
<211> 522
<212> DNA
<213> Homo sapien

```

```

<400> 15
acatcatatg gtgtgctaga catcagcaaa tgcaagaag agtgagtaaa taactctcag 60
tatgcacacg tccatacgca taagtgtgtg atattacttt aagatggaga acgtttacca 120
taagtccctt tagccgaccc acaaaattga aaataagacc aaaaatttgg gaaaagttct 180
ccttaaaaaa gaggaacggt taccaataat cgogtgtagc acacaaaaaa gtgttaaaag 240
tataaagggt aagcaaaagt aacttagtgg cagtaagata acgaatcggt ggcgagaaaa 300
ttattagctg ctagatttat gtattctcta gggaagatcc gcactatgtg ttctcagtat 360

```

ctacaaaatc ttaagttaaa acgcacaaacc agtatttccg ttgtggctgg ctttttagca 420  
 ttttacgggt gcaaatgaaa ataattcgcg agaacacatg taaacatcct tgttattcat 480  
 gcatgtccoc taactttatt cactacgaaa atgtgtacac gc 522

<210> 16  
 <211> 787  
 <212> DNA  
 <213> Homo sapien

<400> 16  
 cccgggcagg tactccgtgt gggatcgggc gggctccttc ctgggcctcg ctgttcacac 60  
 ttacgcggaga tgtgtgatct aagaaagcgc gagaatatga gcgagtcgg ccccttcacat 120  
 tgggtcacacg cgaaatatgt cttatagcgc ggactatgac ttagtttgcg ttacaccgct 180  
 ttctatgaca caaacctaac ttgccgtcag agaaacaaga tggagattgg cactggcctt 240  
 actttgtcat cacttctcgc tactagcttt agcgtataac atatatattt ctcttggggc 300  
 tgtgacctca ggtatttaaaa acgggaaagg ggtgagaggg tgagagcgag ttccggttggg 360  
 aagcgaagca atcccccaaa gagttcaciaa ggggtggcga aggaacttgg agtgaccacat 420  
 tgggtggtct tttcaaatga ggtcattccc aaattattga gagtgcgtgg tcacaggaaa 480  
 ggtccccttg ccaaatccct aaaagccacc ccgatttctc tcataggag aatgggccac 540  
 agtccctctc cacaaggctc cacacggggg gaggtgatag catggcctcg cgggtaaatg 600  
 tatgtaatgc ataaattctt tttaatcttc gccttaatac ttgttttatt gttgtatctt 660  
 attattgaat gactgagcct gtcgtgcccc ccttcccccc ttttgttggc ccgcccacac 720  
 ttgaaatgta tgaaggcctt ttggtctccc tgggagatgg gtggaggcaa aacagggcct 780  
 acctgta 787

<210> 17  
 <211> 1169  
 <212> DNA  
 <213> Homo sapien

<400> 17  
 taccgtcgtg ccgtcccact gtcgcgcgtc ccacgcgcgc cctgtgattt ccttcttccc 60  
 gccaggacaa ctttttttgt ttttttgttt ttgcgttaact ttaattggtc caaatctgtg 120  
 acaattttgt caagtgtcct ccattaaaag tactgattgt aagaaactaa gtaacttaag 180  
 aactgccaca cgcaaaaaag aagaaaaacca aagctggttc cacaagaaca ttctcctatt 240  
 cctctctgaa aggtttttacg actgcacttg cttagctcca gtttaagacc caaggtcctc 300  
 tgggaacgtc accttgaaat ctttcaaac ttggggccca agtctgagag accaacacca 360

```

gtttctgag acacgttcgt tccaccacct gattaagaag tgggggtggc aggtatttag 420
gggataatat tcatcttagc ccttctgagc ctttctgggg cagaacttga gtagacactt 480
gccagcgctc gagcgagccg ttcatctgac acacgtgctt tgtggaatto gaacatctct 540
caaccgtaaa catgtctgtc tctatatcac gaacaggcaa agccgaccca aaagggtggga 600
tagctctgag aaaggctctc aagcagcaca gtgggctttg cccagggaac cattatcgaa 660
gcaatggcag acattcacca gagctctcaa gaatttcagg gccatcttcc cagctttttt 720
taccocaagac cgggcgatca atcttttctc ttcagcctca agcaaaacttg gcatgcaaat 780
gtgacgcgct gtgggcaatt ccaatatcat ggggcactag ctggcgctct tatcttgtgc 840
ctggattggc ttcattggtat aagtcactct gacgcacgtc aaggccacgc tgaatttcca 900
attggatggg tctattgttt agctgtccag ccatgcaatc gtgtggccaa cgacggtgac 960
actccagtga cgagatcaca tgtcgttgac actgtgaagg cctcacactt gtctcaccat 1020
ggaagaagct gtcacgtcga atgcttacat cgggtcatgt tcgacacgat ttgtaacttc 1080
gtatgtaatc gttcactggt agcaaacagg gaccaccata ctggggtttg agaactacca 1140
gtctccatct cagtgcacaac aggcacagt 1169

```

```

<210> 18
<211> 908
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (328)..(328)
<223> a, c, g or t

```

```

<400> 18
taccocgctg gtcgcactgg atccataata cgcgcacagt gtgctggaat tcggttagc 60
gtgtgcgcgc ccgaggggtca aatcatctaa acttccggaa agacacttat acagatccaa 120
atggcacgaa gcgtcccaca tggcccacca gagagtaacg cttcaacatc tgttcagcgt 180
gctatacatt aatgcgtgag tcaattccac gggatgtttc ttgaaggcct tggatgatac 240
cattaatccc tccattttat aaggatgaat tgcacggggc ccttgccgct gggataccgg 300
cgacgggttt catcatcttg ggcccttntt ggccagctcg tcaattcggc tgaagaaggca 360
taggacctgt tottgagtaa tccagtggcc aaggcctgtt aacgtttcct taaggggagc 420
aaaacaagct tccttggtc tttctgtac gccttccaac gttttaccgt tcaaaagcta 480
gccaaaaggga agttcccagg aactgtccgt caatcacgag tgacgtttcta agacatgacc 540

```

```

acggtgctgg tacggggctg aggcaagcca ggggcaagaa caagatggcg tatttcgttt 600
cttgggcttg tgtctccact tctaccgatg ccaacgtgog ccatggtttg tggtgtgggtg 660
caaacattca ggccatccaa cgacagcatg tgttccaaaa agcatccctg gcacagagcg 720
gtgaatcccc acccaccctg aacatccctg ggaattcgag cacacagctc tgogcagtag 780
ctggccgggg ggggcggctg aaaagccgaa ttctggggaa tattctctac actggggcgg 840
cgcgtcgagc atgggtctaga gggccaattc gcctatagta gtggttaaaa tactggcgcg 900
ttaaacgt 968

```

```

<210> 19
<211> 307
<212> DNA
<213> Homo sapien

```

```

<400> 19
actcctccag taattctgat aaggaaactt gaagtcatta cgatttctgt tcttttcat 60
gtgacctatt ttctctttct ggaagtcca tacaccttct ctgtcctaag gttctgtaac 120
ttttgaaga tatgcttttg tgcagatcta ttttcatcag ttttgatggg tggttaactag 180
gtggtccttt tcagcctgga aaagcatgac tactgtcttg atattttttc ctattatgat 240
ttttccagc cctctgacct tttctaaatt ttctttcttt ctggaaactcc ttttattcag 300
atactgt 307

```

```

<210> 20
<211> 67
<212> DNA
<213> Homo sapien

```

```

<400> 20
gcaggctact taagatccat ttccagttt ggaagaggac tggattgtt gattaagtga 60
ttaagtt 67

```

```

<210> 21
<211> 251
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (113)..(114)
<223> a, c, g or t

```

```

<220>
<221> misc_feature
<222> (122)..(122)
<223> a, c, g or t

```

<220>  
 <221> misc\_feature  
 <222> (128)..(128)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (146)..(146)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (153)..(153)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (155)..(155)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (191)..(191)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (210)..(210)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (212)..(212)  
 <223> a, c, g or t

<400> 21  
 cgcgagtaca gagaagcctc cagccaccac acaccacgtc aaaggccttg gatacggtat 60  
 aatctattat acctcagagt ttttcttgcg gatttctggg ctttacctca acnnccctac 120  
 cnaatggngc ctgccccaca gctacngtaa tcntnagtea tctaaccatc tatatgctag 180  
 gtataatact ngctcctggt atgaaacacn ancaatatag ccgtatacat tcgggtttatt 240  
 accttaagct a 251

<210> 22  
 <211> 522  
 <212> DNA  
 <213> Homo sapien

1001833.12001



```

<400> 22
ggggaagg tggatgggc cctgggggt ttggggccat gtgggggtgg gccaaaaata 60
aaaccaagtt tggaaaaata atggcaagga aaaaaatttt ttccacacgc gcgctgaaag 120
ttgtccccc cttggggggc ctgggggggg tcacaagggg gttgccgtgt atgcaccccg 180
gggggggcaa aaattggggg gggggtgagg gggacccctg ggggggaagg gggggatttc 240
aacagaaaac caaaaagggc ccagctcaa aaccccatat cctgggggtt gggggcgac 300
ccctgttcc cggggggggc ccattgcaa gtggcgcc ggggggtgta cagggggggg 360
gagtggtttt aacaaccgtg ttttggccc ccaaggtccg cgggtgaaac ctgtggaccc 420
cacttctaaa aggtgtacca ccctggccg ggggggagcc gcacaaaaaa cgcgaaacatt 480
tcgggagaaa ttccccccac aaaggggggg gagcccgacg aa 522

```

```

<210> 23
<211> 160
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (76)..(76)
<223> a, c, g or t

```

```

<220>
<221> misc_feature
<222> (104)..(104)
<223> a, c, g or t

```

```

<400> 23
gcatggtttg agcctgagtt aattagagct attataataa cgcttaaaaa tctaccgata 60
atctectcga gctaantatc acatctatta tgtctttctc actngggggtt ttttctggtc 120
tggtagacaa aggggttgat tatatctgtc attggtatta 160

```

```

<210> 24
<211> 592
<212> DNA
<213> Homo sapien

```

```

<400> 24
acatcactga ttggtgcctt agtatcaatt cctaagaact actgggttaa agatcaatta 60
ttcattcaat aagcatatgt tgaacatcta atattgggcc aggtgctttt tttttttttt 120
tttttttttt ttttgggag aaaaggggtt gtggctgggg ggcccgaggg ggggtggggg 180
gggggaaaaa aaagcccgag ggcaccttgg gaacctcggg ggctaaaaaa atctcctcgg 240

```

tgttcagccc ccaaaaaatgg ggggagtcag gggttgcacc ccattatttc cgtgggctgg 300  
 aagtgcgtgt cttattatat ttattttttg gggagaaca agagtctaac ttgggtcccc 360  
 cacggggggg gtggtgcggg ggggcacaac cggggccac cggggaacc ctcggccccc 420  
 ggggggtcc aggtaatcc tccacacct cgagccccc gacaaaaggc gggggaatac 480  
 gcgggagtgg aaccggccg gggggggcg cgccgaaaag gccggaattt cccagcaagg 540  
 gggggggggc gggaaaaaag gggggggccc cagagaccgc ggtaccagg tg 592

<210> 25  
 <211> 317  
 <212> DNA  
 <213> Homo sapien

<400> 25  
 ggaaaaaagt ttagtgggca cagacccaag tgtagtcccc ggtatttata aaacttagga 60  
 gctattttaa ctgtgcccga cctataagtc ctcaaatct ggtgtgtgct tacggcacat 120  
 ttcagctggg agcccaattt tttatcagaa atactagatc tcatttcaga acagtgcac 180  
 ttttaaaaga ttcataaatg tgagttgttc caaggatcaa aagattttat ataactgaac 240  
 tgagttactt aaatttcaat ttgagtttta aaattttaa taattaagta aaatttataa 300  
 attcagtttc tcagtca 317

<210> 26  
 <211> 537  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (485)..(485)  
 <223> a, c, g or t

<400> 26  
 acaagctttt tttttttttt ttttttccaa aaaacaattt tttttgggcc cccactagg 60  
 gcccgggcgg ttgttctaaa ccccccccaa aaaaaaaaaa aaaaaacaa aaaaagggcc 120  
 gcaaacccaa ttctgggggg aggggaaggg ggccgttgag ttagacggct taagggaact 180  
 gaaaaccctg aggtgagggg ggccctctgt cctcaggccc ccctctttcg gccccctcac 240  
 cgaaatccct ctccctctcg gggggggccc tccgagtcct ctcggccggg accacgctta 300  
 gcgaattcg cgcgattccc atcaccggg gggcccgccg agcttgctct cttagggggc 360  
 caatttcgcg cctttgggga ggccgtttta caaccacgg ggccggccgt ttaaaaccgt 420  
 cggggcgggg aaaaaccggg ggggacccca attaaagcgg ctgggagaca cccccttgca 480

aaaangaacg accacaaggg ccccccagac cagcaccaac gacacagaca cacaacac 537

<210> 27  
 <211> 506  
 <212> DNA  
 <213> Homo sapien

<400> 27  
 acaagctttt tttttttttt tttttttttg ggggcccaca acccccacaa ttctcttttt 60  
 gggggtttta agaaaaagat gtggaatctc agcctagggg tcgctgaggg gggccagtc 120  
 ggtgtcagtt ctgtgttcag agaattaggt cgcagagtcg cctttggctt ttcactttga 180  
 tggaccccc ggttggtccg gtgttgtccc cagggattgg tggggccatg ttgtctcttc 240  
 aaacacctac aatgagaggg ggggagagga attggggggg tggctatat ttattccctc 300  
 tccccttatg cttcaaatgg tgggccccca cattggattt tggccaaagga ctctctgtcc 360  
 ttgcccgggg gggcgttcaa aagcaaatat ccacaacatg gggggggcgt aatagggggc 420  
 caagctcgga ccacgttggg cgactcaggg catagatgtt ccgttgtaat tggtaactgt 480  
 acaattccca aattaacaaa aaaggt 506

<210> 28  
 <211> 223  
 <212> DNA  
 <213> Homo sapien

<400> 28  
 acagcgtagc aagattaaac taaaaagaaa tagaaaacct taacagacta acaggatgta 60  
 taagattgca tcaataataa aaaaaaactc tcaagaaata aaaaggccag gaccagatgg 120  
 ctttaccgat gaattctatc aaacttatga agaaccacag ttgctcttaa acaattccaa 180  
 aaacacaaaac aggagtgaat tcttcttaac tcttctatg agg 223

<210> 29  
 <211> 305  
 <212> DNA  
 <213> Homo sapien

<400> 29  
 acagcgtagc aagattaaac taaaaagaaa tagaaaacct taacagacta acaggatgta 60  
 taagattgca tcaataataa aaaaaaactc tcaagaaata aaaaggccag gaccagatgg 120  
 ctttaccgat gaattctatc aaacatataa ggaggactgg gtgccatcc tctttaaact 180  
 ctttcaaagg gttgaagaag agggattact cccaaagaca ttctatgagg ccaccatcac 240  
 cctcattcca aaaccaggga gagataccac caaaaaagaa aactatcgcc agaccgtctc 300  
 aacgg 305

<210> 30  
 <211> 489  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (118)..(405)  
 <223> a, c, g or t

```

<400> 30
ttaattttca ccacaactgt ttctggcag ttattccata acattttccc acaaaaagct      60
catgggtgca ttccagatca agaaattagc atcatttttt tttttaatca caaaatgnnn      120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnntaatt aataaagaat      420
ataagaataa aatttttaaa aaaatcacaa aatcacaaaa tttaaccaca acagctgaaa      480
agatgagaa                                         489

```

<210> 31  
 <211> 589  
 <212> DNA  
 <213> Homo sapien

```

<400> 31
acaaagggtca aagcatgcc tgtatctgaa ctgacaactg gtagccactc ttcacagatg      60
tttattttaa ttaaataaa ttaaaattaa aaattcactt cttagcttgc actagccaca      120
cttcaagtga caaatagcac atgtggctgc catattggac agggaagcga acatttctat      180
caccacagaa agttctattg cacagcactg ctctagaagg caatgacatt aacttgcttc      240
cctctgtctt cttataagaa aagggttttt ttgttccaat ttgtttacag ttgtgttttt      300
ttcagcagtt ggtgtgatat tatttctcac acacctgagc attttccagt cacaaaattg      360
ataggattat cgactatttt caaagtcagt tgttatcttg ttacacattg gttgtacaca      420
gcctaattgg catctctacg ctctctctga ataacatttt ttctgttgga accacttcta      480
aagcagtoat aagtgttcag gagaataaca atgccccatt gagctggctc cattctagtg      540
tgtcacagat cccctctgtt cagctcagta ttgtgagccc atgaatttt                    589

```

1001833.112001

<210> 32  
 <211> 709  
 <212> DNA  
 <213> Homo sapien

<400> 32  
 agtccttgaa atctggcatg ctttttacac ttacagaaac cctcaatttg gacactaagt 60  
 ttctcattgg aatatgtgat gtatttagat ttcataaaat ttacagataa aaagtagatt 120  
 caacaatcta agttgtctaa gcacacttaa aagttttcca gtaactgaaa caacggtaaa 180  
 cctttaaact taaaattaat taaagttaaa aaattcagtt cttcagttgc actagccaca 240  
 cttcaagtga caaatagcac atgtggctgc catattggac aggggaagcga acatttctat 300  
 caccacagaa agttctattg cacagcactg ctctagaagg caatgacatt aacttgcttc 360  
 cctctgtctt cttataagaa aagggtttttt ttgttccaat ttgtttacag ttgtgttttt 420  
 ttcagcagtt ggtgtgatat tattttctac acacctgagc attttccagt cacaaaaattg 480  
 ataggattat cgactatttt caaagtcagt tgttatcttg ttacacattg gttgtacaca 540  
 gcctaattgg catctctacg cttctcttga ataacatttt ttctcttgta accacttcta 600  
 aagcagtcatt aagtgttcag gagaataaca atgccccatt gagctggctc cattctagtg 660  
 tgtcacagat cccctctgtt caggtcagta ttgtgagccc atgaatttt 709

<210> 33  
 <211> 489  
 <212> DNA  
 <213> Homo sapien

<400> 33  
 actgttaggg ttgcttcctc ttttatttct gaaagacttt gcatagaatt gttactattt 60  
 attctttaa gattgtgaga atacaagagt gaaaccttcc tgacctggaa ttatttttgt 120  
 atgtgagttt caaattatta gatttaattg atttaataga tgcaggatta ttcattggtt 180  
 ctcttttatt ttaagtgaat ttttgtaacc tcttttctct caagtaattg gtccgtttac 240  
 caaactttta aaatgtattt gcataaagtt taaacattgt gtgcttacta tcattttata 300  
 acctgtagta taattagtga cagtccttca ttactggctt tagtatttag tattttttct 360  
 ctttttttgt gagtatagct agaatttttt cattttttta taaatgagct ttttatttta 420  
 ttgatattcc attttgggtt tctttcaatt tttattgatt tttgttctta tatgtatttt 480  
 attattttct 489

<210> 34  
 <211> 268  
 <212> DNA  
 <213> Homo sapien

<400> 34  
acaagctttt tttttttttt tttttttttt ttttatttta aaaatttttt tcttggaac 60  
ccaacccaaa atttggggaa ggaacacgtg taaaagtaat cctggcatat tgcgggaacag 120  
caagccctta ttggaaaaaa agtgaggact taaaacagtg gatctcaagg gcaatacccg 180  
tgctactgtg ttttcaaaaa ctacgggggtg aggtcctttc ttaagcaaat tttttctttt 240  
ccctaataag ctacaatat gatacagt 268

<210> 35  
<211> 601  
<212> DNA  
<213> Homo sapien

<400> 35  
acagagcttt tttttttttt tttttttttt ggccccaatt ttaactttt tttaaaacca 60  
aatcacagatg ataacacgct cccaaaggag taataagcag taccaccaat tgctcgtgat 120  
tctccacac catgaaatgt gttttgtaca cacaggggga tctctccaca tctaaatctc 180  
caaaccctta gtgaaccca acattttggc tctctttggg accaactttt ggcctaaaga 240  
ggatgacccg cttaaaaaat tacttataat tagttaaaaa ttttaggtga tctcccaaaa 300  
aggcctaatt ttaatatccg tgattttttt taaacaaaag cttgttttct ttaagcctaa 360  
agcttccctc acaatctctc ggggcccaag aaaaaaaga ttttcttgga gttcttaag 420  
gttctttccc aaataaggaa tttccctcg gggggaaaaa tttggttttg gaaatccgt 480  
gggtggggag aactccattt cttgtgaaaa aacgcccaaa attaaggggg attcgccatc 540  
aggggtctcc ccagtggaaa aaagttacct tcgccgggg gggcccggtt tcaaaaaagc 600  
g 601

<210> 36  
<211> 551  
<212> DNA  
<213> Homo sapien

<400> 36  
actgttgcca accatctttt cctagtggca agagaagttc tacagcccaa atgttgtcag 60  
ccctggaatt aactcaactc agggagactat gagggaggat ttcaggtgaa aatttgggca 120  
ttgatgatag aaggctcatg gtgttcttct gaaaaacctt gggggctata gaatttttgc 180  
cctaaaaata aagatgtcca tgagaaaact aggaatagag cagactactc aaacctataga 240  
tctttttaac tagaacatta atagcaaaaa caaatgaaa caatcctaata gaaaattctg 300  
gcataattac aattctctta gcatttacac caggtaaaat agtcactcct ttgcaatcct 360

aaaatgttaa gctagtgtct tcttctccag gacacaggtc ctggaggaca ttgtttttaa 420  
 gagagactat ttctataaaa atctgactca tgggtgtggc ttcttcataa attcattgtct 480  
 ttaggggtggg gaacaagttc tacagcttca tcacctacac tgttgcttta ccagtagctt 540  
 aaaatagtagg c 551

<210> 37  
 <211> 244  
 <212> DNA  
 <213> Homo sapien

<400> 37  
 accattagac ctcagagcac aggaagtgc ccagcccaac taggacacct gaaccacggt 60  
 tagcctgtct gaggtgttta ttagctgatt cctccagaat ccagggtag actatatagt 120  
 aaagtcttat caccacaaa gaacacctgc aagggctgga agaggtggct gtctgctaaa 180  
 acacacaggt atcattataa ggacagaaa attatgaaa atcaggaaaa tatatgatac 240  
 cacc 244

<210> 38  
 <211> 681  
 <212> DNA  
 <213> Homo sapien

<400> 38  
 acaagctttt tttttttttt tttttttggg gaaagggtagg aatggccctt tggggttttg 60  
 gggccatggt cgggtgggct caaagaataa aaactaagtt tgtgaaagta tgaagtgcac 120  
 gggaaaaaca aatatttctc caaagctcca gtggtgaaat ggctcctccc aattttgtgg 180  
 cgcttatggg aggaggggtc caagttgggt gttgcgtgg ctggtgtatc cccggggata 240  
 ggggtgcggga acaagatggg ttgtgggtgt ggggaaggaa gcccgagggt gggcgagtg 300  
 ggaagggaag ttacacagag gaaaagccaa gaacgggcgg cccacacagc ttcgaaaagc 360  
 cccgcaaatc cgctgggtct cggggggggc caccacgcg tctcctagag gggggggccc 420  
 cacatctcgg tagtataggg ggcccagggg cggggaaagg gccatggaga ggggtaatgg 480  
 gggacacctg cgccccggga gggggcggc ctcagaacgc cagaaatctc caggccacac 540  
 gggggggggc ggttaacatag ggggactcca aagcctcgg accaaagctt gtggggaac 600  
 tcatgggcca aaagcgtggt cccggggggg ggaattgggt acccgccac aattcccat 660  
 aataaccaca acaaaaaacg t 681

<210> 39  
 <211> 510  
 <212> DNA

&lt;213&gt; Homo sapien

<400> 39  
 ccccggtgcag aaatTTTTat gtctgctaag ctgattaatt ttgtgtctgt cacacaagag 60  
 agcagcattt cttattcgaa tcttggtgcaa tgcactatga gtaccataa caatagtaaa 120  
 tattacatga ataagtttgc ccaagttctg ggagcgaacc acatacggga gaacaatgta 180  
 aattgtactc aatctatgtg ttacacaaaa tgtatatgtt tatccaatgc taogtgggaaa 240  
 cctcgtggat acgcttaaga agaaaaaaag tcatccatga aatcctggga aacacagaca 300  
 atttaaacga atccgcaaaag attgccaaat acaagactta tagtatatat tatgctcgag 360  
 agaggtcatt tcagtcacctg tgatacttga ttattttgct gtgctatgat cttgtgtgca 420  
 cagttatcac tgtacctgtc agcttagttc attaaagtaa ttggaaattc tcagacagca 480  
 cagtggtatc agacacttgt attcaagagt 510

&lt;210&gt; 40

&lt;211&gt; 145

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

<400> 40  
 aataattgctt ttctcttctc gccatagggc tctctaaaacc ctgggaattt cccaagtaac 60  
 agagatgaga gcagtatctt tttttaaatt cataatgagc ccctttccac cgcactctgt 120  
 tatgctaatag aggttaactct gatga 145

&lt;210&gt; 41

&lt;211&gt; 605

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

<400> 41  
 gtacaagctt tttttttttt tttttttttt ttttttttagg gtttataaaa tttttattgg 60  
 gtctttttaa aaaaagggggg ttcccaaaaa ataaaacctt tgggacaaaa aaaaaggggg 120  
 ccccggttta aacggggggt acgcctgggg ggagcctctg gggcgacagt gtgatcacct 180  
 ctagaatgcc tgggggggtc ccccccactt tttaccgcc caatttttct ctgcccaaca 240  
 tgggcagtgt ctttctctcc cgggcgcgca aagatgattg caccggaggga gaggggcggg 300  
 gcggccctcg ggggccaagt atgtctctgg aggggagagg gggggcgccg cgtcactaaa 360  
 gactgggcgc cactctctt aactatatac aaggtgaaaa cgtgaaaaag aacgtaaaaa 420  
 aaaaaggggc cgggcggggg agaggagccc ggccgggggg gcgcccaaaa cogaattccg 480  
 ggaaattccc acacacgggg gggcgggcca aagtgggtga agagggggcca cttcgcccaa 540  
 agggggggggg ttaacaaaca ggggcggggg tgtaacagct cggggggggga gaccccgggg 600

1000183.11201



ctccc

605

<210> 42  
 <211> 355  
 <212> DNA  
 <213> Homo sapien

<400> 42  
 acaagctttt tttttttttt tttttttttt ttttttccaa aaagcttttt ggatttttat 60  
 tttttccccc ggggtgggaga ttcattccgta acatgcatac ttttcacaaa catgaaacgg 120  
 ggtctcaaat tttttaaaag cagactgtta gacaacgcac ggggggtttgg aaatatcccc 180  
 tatttaaaaa ttgggaacct ggcagtgggg tatatggggag aagtcacacc tctgggtgggg 240  
 gttgggtggt ttggccctgt gttcccccca aaggggtggt tttgaacttt ctccacatt 300  
 tttttatttc caattgactc tgcccgtagt gcgggaattg tgccgagaca gtacc 355

<210> 43  
 <211> 401  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (184)..(184)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (255)..(255)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (267)..(268)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (270)..(270)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (283)..(283)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature

1000183.1.2001

<222> (323)..(323)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (352)..(352)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (265)..(265)  
 <223> a, c, g or t

<400> 43  
 gttatctttg ggtagaagaa taatgagtga tctttacttt tttacttttt attcaatctt 60  
 tgggtgttttt atttatcttt aaaatgggta tatgagtttt taggaacggg tttttgaaca 120  
 aacgaaaaag gtgttttggt aaatggcaac gcacgctgat ctggatttgg gaaacaccat 180  
 aacnttgaat gtgacagaac atatttcacg cattcaaaaca catggacggg tacggtttga 240  
 aagcttttcc tctcttctct gtganannan tgtggactca tgnactcaca acactcgtgg 300  
 ctgcgcacg caactaaagc gcncctaatt cgctcgacg cgcaactctc cnacgcgtgc 360  
 gacgcgctta tactaattaa tggtgcaaag gtaaacctgg c 401

<210> 44  
 <211> 363  
 <212> DNA  
 <213> Homo sapien

<400> 44  
 ggtttacttc tttatatgt aattaaatag actagaacta atgctgtgat tcccccataa 60  
 gtgaataagg gtttttgtat gcattttact ttgtcttatt tcagacattt ttaatctctg 120  
 ttcttgttcc ccttttctat ttctgatatt attttataaa cctactcttg ttttctattt 180  
 cattaccctt atcgattata ttaactcttt cttctaaaaa cgggttttcta taaatactgg 240  
 aagcgcatgg taatttgact tcccaatagc aatgataaac ttgaaatgc ttaatatgtt 300  
 ttaaatcaag acaacaatat aaaccctgtc tggctatcag tcttgttaca gtctctcact 360  
 tag 363

<210> 45  
 <211> 733  
 <212> DNA  
 <213> Homo sapien

<400> 45  
 tttttattct cagtttcttc ttttggggcg gttgtggttg ctctcttatg tegtgtgtg 60

cgtgttcggg ttaactcgett gggatgggta tttcttcgtg ttgttcgtgg tttgatgtct 120  
 tctgtctctg ggcgcgggtg gtcgcgcggg ctctctgccc tcataccgtc tttgttctgg 180  
 gtgcggtgtg tgtctgttgt cgttcgtgtc gtttgtctcg tgtactgtcg tcgtagtatc 240  
 cgtgtgtgtt acgaaaagag tgggaaatgt tgtctgacaa agggcgggacc ttaagcgctg 300  
 ggggttaacc gacgccaggt ggttgttttc caccagttcta cagaacgcgt tgggttaataa 360  
 cgagccgggc caacgtggat ttggtataat accgacgtca cgtattaagg gctgaaattg 420  
 ggcgcctctg taaaatgcat tggctggaac cggccgcacc agtggtagt ggagaaatct 480  
 tgccagaaat tctggcgctt tcgagcgtcc cgccccgggc aaggtgggga cggggttctt 540  
 ggccacaaac ccatcttcca ggccacgcgt ttttttttcc ttttttgttt ttgcgggcca 600  
 cggcccgaaat cggggtttgt accagctttt tttttttttt tttttttttt taaacagggtg 660  
 caaaacctcc ttgggctttt aattaacact tagcagtga tgcacgcagg ttgggctaaa 720  
 aggtttgggt acc 733

<210> 46  
 <211> 558  
 <212> DNA  
 <213> Homo sapien

<400> 46  
 acaagctttt tttttttttt tttttttttt aaagggaatt acaaagccta ttttaaataat 60  
 ttgggtgggtg acccccaaga ggatataaaa acacggggag ggggttaacc ccttccacc 120  
 ccgggttagg tgccccaggg ggaagagagg ctcaactgag ggagaaggaa gcccaaaggg 180  
 gcccgcgctg cagactcagg ccaaggggat tgccatcgtt gcgtggaacc gtgtgagcac 240  
 tacaggggga accgcggggc ttggggggac tgggccccgg gcaacggggc gaggggcaag 300  
 ggggttgttg cacaaccccc caaagcttct tgggtcccc ctctcttctt cgtggccttt 360  
 tegtgtctcg ggggatgacc ccgagcccc ctctgtctgg gggggggcag cagaagagcg 420  
 gtatcggggg ctctccctta cagagtgccg gctttccatt ttctcggggg ggagctccgc 480  
 ggggtcccggt gcagggcagg cggggtcaac cgcccctta gttccccctg cggaccgcta 540  
 gcgattccgc cggggggcg 558

<210> 47  
 <211> 328  
 <212> DNA  
 <213> Homo sapien

<400> 47  
 actctggaaa atatttgcta aatttgctt tgttcaatc cctcatgggt tctgtgacct 60

caaggttgca tgtctacata agctgttggc aatactgcac taaagtatct cctttcaaca 120  
 aacaaagggg gaagctagga gaaggacaga gaggtattta ttaaaattct tgcaatttct 180  
 ctgtagagta taaactgttc aaaataaaaa gtttggggca gaaatatata atatattgga 240  
 tctcaaaaac caaccaaaag gaggtatggc cggttcatca catcttggtc gggagaagaa 300  
 aagaaagtgt ctgatggtga atatccgc 328

<210> 48  
 <211> 666  
 <212> DNA  
 <213> Homo sapien

<400> 48  
 actggttatga ggtagatagg gttctttttc tagtcccagg ttctgagatc ttatcagaaa 60  
 tggatgttga atttcaccaa gtgcattttg catcaattga attgattgca tgcatttttt 120  
 ttcatcagct tactataggt gaaatgcatt gaatagtatt ggaagtaaa ttcaatcttg 180  
 tattttcaag cataacagaa acatttagct ccataaagca ttggttggtt caatttggtta 240  
 atattttatt aataattttg cttatatgct cctgttaatg tggtagatgc atttgatttt 300  
 ttctactggt ataattgctt tctctgtttc atatataaga gtaatgctaa cttcatagaa 360  
 ttagttggga agatttactt atatttaata ttcaggtaaa tgtaagtaa atgtattagc 420  
 gtttctccct tgagtgtttg atagaagtct tcagtgaagc catctaggcc agaagttatt 480  
 ttgcttgaga gcgtgttttg tttgtttttt aagtcaaaag attcagtatt attgagaaat 540  
 accaatttct tcttcagtga gctttgttgt tttgtgtttt tcaaggaaat tatccagggt 600  
 atcttttttt ggcataaagt ttgcataata ttcaattatt ctaattgtaa aatatgtaga 660  
 tactgt 666

<210> 49  
 <211> 584  
 <212> DNA  
 <213> Homo sapien

<400> 49  
 acggtatattg aaaggtgttg cctaagtctc cctgacatca ggaaataatc tagggctcat 60  
 ttagagatgt ccacagagtc tgttctagtt tcttaaccgt agaacgaaga ggtgttttat 120  
 gttccagttt tactaggcgg gggagtcgtg agccagaaga tgttatgtca cgtttccata 180  
 gtctcctata tgcataagaa tgtcttctgt ttctgcccta tccattgatt ttccccatgc 240  
 tcagtacggg agctgtcaaa tggcatgcag agtctgggac gagtgtgtac tgcctcaatg 300  
 cgctgtaagt acccagtaaa ttatggggag gacgtgaggg aaggaagggg tcacttgtga 360

100183.12001

agcccgaggg ggttcgagag accaagactt gagcagacat aagatgggac ccctggtggt 420  
 ctacagaata aatataatta gtcaactaaa aacatggcgc aaggcctggg cgaatagggg 480  
 cccatgagtc acacggaaaag tcgggggaagg ctgaagccgg cggggaacac cttgaggccc 540  
 agggaggcca gagggcgcac agaggagctg tgggtttggg gcaa 584

<210> 50  
 <211> 216  
 <212> DNA  
 <213> Homo sapien

<400> 50  
 cgccaagtgt ctcattggagg aaaaaattgc cctagttagg aagcactaat ttagggcaaa 60  
 ttaccagatt gggacatgct gggtgaaaag ctatgtgtat ttaaatttga taaacatgta 120  
 ttgatttata ttgaaatttt atgtatgtat tccccaactc ttttctggaa caatgggtatc 180  
 aattcctatt tctttcttct tttttttttt ttggga 216

<210> 51  
 <211> 184  
 <212> DNA  
 <213> Homo sapien

<400> 51  
 gagaaaaaaa caagtggcta agagagtggg gtgtcaagtg ttctcaatac atatgcacaa 60  
 acacacacat acacagaggt actggctctg tcactctagc ttgacatatt actcggtttc 120  
 actatgtata tcacacatcg tgttgtagca cttaaatatt tacagatata cggttcttatt 180  
 acga 184

<210> 52  
 <211> 315  
 <212> DNA  
 <213> Homo sapien

<400> 52  
 acttaattgac attgagtcct ctaaaccata aacttaattgt atctattaaa ttagtggtgc 60  
 tttcttaata acttcccata aattgcacag tttttctcat aaatgccctg caaaaatcct 120  
 acgggatttc tttctagggt tgtgcgtgtg tgtgtgtctg tgtgtgtgtg tgtgtgtgta 180  
 tctttgtaaa ttogaattgt aatttctaaa agttttattt tgatataatg gacacacagc 240  
 tgatttaggg aacactgatt tttatatcca gataccttac taatgtgaagt cctgggagat 300  
 agctattttgc atgaa 315

<210> 53

1000183.112001

<211> 201  
 <212> DNA  
 <213> Homo sapien

<400> 53  
 ttctttgtca gataatttctt cccatttgtt ggcttgtgtt ttatttcaac actgtctctc 60  
 aaagagcaga agtttttaaat ttttttgttc cattgtttgt tgttagtgta tagaaataaa 120  
 attgattata gtgtattaac ttgtattct gtgaccttgc tatattcatt tattagatgt 180  
 agtagcttat agggttctta a 201

<210> 54  
 <211> 55  
 <212> DNA  
 <213> Homo sapien

<400> 54  
 caccctctc ctcttccatc tgtgtccaat ctccctctgc cccttctgtt ttttg 55

<210> 55  
 <211> 343  
 <212> DNA  
 <213> Homo sapien

<400> 55  
 ctctctgctt ctacttcattg gaagagattg tagagacatt ggtatcattt tgctcctaag 60  
 ggtttggtag aattaccac ttggaattag ggctttcttt ttgaaagt ttattaattat 120  
 ggattcagtt tcctttatat taatagatac aggcattttt agatgatatg tttctcctta 180  
 tetgagtttt ggtagcctgt gtctttccag gaattgggtc cttttateta aattaccaca 240  
 tttgtgggag aggagctgtg tataacaatc ctttggctat ctttttatgg gccgagacag 300  
 gagggtgaaa cgggcgaac tgagggggga caaggggggc ccc 343

<210> 56  
 <211> 378  
 <212> DNA  
 <213> Homo sapien

<400> 56  
 accccattt ttaagaaaa tattttaatt ttttttccc tcttctgtgt ctctttactc 60  
 ctctctccca attcctaatt agagtcttta ggaaatggaa ttatatgaat ggcctttaac 120  
 ctctgtcttc accagggcac tccgctacaa ggcaagttca tctatgtgct tagcacctcc 180  
 agagctaaaa tcttaccacc cagaaggttg ccttgagaga taacagtgaa tttacaacc 240  
 aaagtatgcc tggctatagt ttttgcacc ctttaaaacc tgattttgcc catgaagaca 300  
 ctgaccaaac tgctcaagtag gtaaggcacc caagctagta ctagcaagcc agatcaaaaa 360

gcacatcaaa aagatagt

378

<210> 57  
 <211> 140  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc feature  
 <222> (88)..(88)  
 <223> a, c, g or t

<400> 57  
 cattggcccc tggaggcccc aggattggcg accactggcg gcctccaggc cctgggttgg 60  
 ggtgaacag gcaagattct ggtctcnaaa aagaatgcag tagccgagct ggttatgcac 120  
 acatcctgga atctttgaga 140

<210> 58  
 <211> 198  
 <212> DNA  
 <213> Homo sapien

<400> 58  
 acatattact gtaggtctca taaggtttaa aaacaactca gacacgaact ctggtctctc 60  
 ctcttttttg ttttcacaac ctttaaaacc acaataaac gatgagtaat ctttactggg 120  
 ggaaaagagg ggaaaaaaaa accaccaaaa caaccocgtt tggtggaata aaaaaaaaaa 180  
 aaaaaaaaaa aaacttgt 198

<210> 59  
 <211> 514  
 <212> DNA  
 <213> Homo sapien

<400> 59  
 acctaatgtg agaacatttg aaagaacgag tccaactcac tgagagtatt ctgagttgtc 60  
 tctacttagt gcggaatata ttaatagttg gacaacactc ccatacttgc ttgcagatag 120  
 tcatagcgat tgggcacogt tccaacagtc gtaactttta atgactcttc tgtgagacta 180  
 ttatacagat atctcatcgg tactatgtca ggtatgggaa ggctatgttg tagatgagac 240  
 tgcgatacta ttctgtctct agagcaacga ccccaagacc agatgtctca ctcttactag 300  
 atagactcta taggtcacat ggggtctacc tcctcgaagt ccccatctag gggccaggag 360  
 ctgagagctt caccaggtag aacaataata ttttttatgg ctatggaaaa agtaagcagg 420  
 aagtattgat ttgacagcac gtcttgactt gtattgtatt gacctaaacg tctcatatga 480  
 ttagatcaco tcgtatatca aagaagtggg gaag 514

10001083.112001

<210> 60  
 <211> 502  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (253)..(253)  
 <223> a, c, g or t

```

<400> 60
caaaagaata agtgacttac ggaaaaaata tcggaaacac atatggcaag aattattttcc 60
caagctttct tttcaaccag aaaagatgac aaccctaaag aaaaatgaag aaagacagga 120
acaacaatt tgcagagaaa gaaatagaaa cagctaacaa cacacaaaga aaagatgtcc 180
acatgtaatt aaagaaaggc aaacaaagac aataaaatgc catttttacc tgtcagtcac 240
tctcacatac ttnttggtga cactataaac tggtgaaacc tttttggagg gcaattttggc 300
aatagttatc aaagcctaaa gcagccaaag cctgcagcca tagcctccaa cctagcaatc 360
actgacacct caccctaggc ccaccctggg acaagtcac cctggcattt gtccaagtat 420
attgcttgca gcactgtttt caataacaaa aatgaacaac tcaaatgtgt atcaatgagg 480
accctaataa ataaatgatg gt 502

```

<210> 61  
 <211> 228  
 <212> DNA  
 <213> Homo sapien

```

<400> 61
acatggcttt tggagggtac ttcttaaatc gattttctta ggctgggtac tcagaagtgg 60
gagtattctg ttagagcctt agaatatgtc tttatggtcc tgaatcatt tagcaaaatg 120
atatactttt gaagcaaaat tcatagacat ccttaaacag ttaaatgttt ttataaatta 180
gcatattaag atatgcatgc aatgtagaca tataaacaag taaatagt 228

```

<210> 62  
 <211> 148  
 <212> DNA  
 <213> Homo sapien

```

<400> 62
gtttttttgt tttgctttgt tttgttttgt tttaaaccag ggtaaaatgt tgggggccaa 60
gttaagcttg gctggacctg gcaccaagta ttaacagaag ccagaagtct aacctcattt 120
ttttttaata ttctttttca gactgtgt 148

```



<210> 63  
 <211> 491  
 <212> DNA  
 <213> Homo sapien

<400> 63  
 acagacacaa gtattcttaa atgaatacac aataacaaaa tatataagct gttagttaa 60  
 aacaaaaaaaa tataggggag aaaaagttaa agtatagagt ttttttatgc agtaaaaactg 120  
 aaactattat atcttttaaaa cagaccatta taactataag ataatttatg taagcaacat 180  
 tataaccaca aagaacagac ttgtaataga tatacaataa tataaggaaa gtattcgaag 240  
 catgtcacta caaaaattca tcaataataa aagaaatcca gggagagaga aagcaactac 300  
 aaaaacgtaa aaaaaaaaaa aaaaaggagg ggaataagtc cttttttata aataattact 360  
 ttaagtgtaa gtgttttact ttttctattc aaaagataaa gaaggtcgga atagattaga 420  
 aagaacaaa ccaattaaag tgggaatcac ctatatacgg cctagagaag acttacttca 480  
 gctttcagaa c 491

<210> 64  
 <211> 640  
 <212> DNA  
 <213> Homo sapien

<400> 64  
 caaaaattta aaaatgttta gcttcctggt gattcattga gtggaacatc gatgttttgt 60  
 gcacttgctc atatatattga tacatcaaaa gtggaaattt gaaaatggag aagtttggaa 120  
 catctcaagt cacagattcc atggggaaat aatgttgagg acatttgta aaaaactatca 180  
 tatatgcttt cctggaaaaga ctagcaggac agcaaaaacta tctggatagt tgaagagtta 240  
 gtaatatggc aaataagtgg gcttcaactg taggattttc attacataa aacaaacagg 300  
 agatgcacct catgctacta ccacataaat gagtttcata gagaatgttt tagaagctag 360  
 aggaatcctt tgaatttagt gccatctcta tatcagcagt ggctgaatta tgcattgaag 420  
 taatagtaac tgaatgaag actccacagc ttgctcaaaag aaaaataaaa acatacagtt 480  
 tcagaaagat acaaacatat ctgctcttac tttaaataatg ctgataacat gcacatttta 540  
 cttcagtgat taacagtat tttaagtcag cacttaaaaa aaaaaaact acttcttggt 600  
 ttcagttctg acacataaaa tgcttaaaaa tcatcatac 640

<210> 65  
 <211> 550  
 <212> DNA  
 <213> Homo sapien

1001003.12004

<220>  
 <221> misc\_feature  
 <222> (237)..(237)  
 <223> a, c, g or t

<400> 65  
 actcatcatt gacttagggt aaactttttt gctgtaagct ttcttcatac tgtctagtgc 60  
 ctttttcabg tatttatttt gcttattcag cactctcgag tggactttgg ggaggttagga 120  
 aaaaattgaa tcatagtcag taacagtgtg gttctcagat catgtggaca aaagaactta 180  
 ttcaaagct accccttccc tgcttttctt actgtgagtg tggactatac attcttncaa 240  
 tggtaggagt tttatgttat ctttgggagt tggcgggtg cctttgtggt gggtaggagt 300  
 taataatggt aagggttagt ttgtaggtgt gaaaaactgc agaaagacaa atggaccaat 360  
 aatatgaata,gtcagtttac agagaaagaa atataaatgg ctgataaata tgtgaaaaga 420  
 tgcttatctt ctaataaaaa tacaatttag aacagggaga tgtcacggtt gcgttcggca 480  
 actgggcaac gatttagaaa ccattttgga taagtggatt gggggttagg tggagtaaag 540  
 tggagaaata 550

<210> 66  
 <211> 1735  
 <212> DNA  
 <213> Homo sapien

<400> 66  
 atgggtaaca aggaccaggc atatggatca ggctgtgata ttgttatttt ggcaaatgac 60  
 tttgaatgtg tacagatcat tcctgggtgt aagcatggaa acatccaagt cagctgtgtg 120  
 gagtgttcta accaacaagg aagacggagg ctgcggaaca acaagattg ctgcctgttc 180  
 ctacctctgg gagctttgtc ccagaagggc acccgccaga tgcggggcag agctctctctg 240  
 tatgtggtgt ctgtaggccc ctactgtgag gtgtctccag tctgggtaca cgggggggtc 300  
 agggaccacc ttgaggaggc agtctgtcct gtatcagagc tcgaatgctg tgcctgggaga 360  
 attgctgtctc tcttttagagc tgtcaggcag ggacgtttaa gtctgctgaa gctgtgctctg 420  
 cagccgcccc tccccccacg tgctctgtct cggggagctg tggtgggctc caccagttc 480  
 aaacttccca gcagctttgt ttacactgtg agggtaaaac catctactca agcctcagca 540  
 atggcggatg cactctctcc caccaagctc gagtgctcca ggtaaacctc agatgtctgtg 600  
 atagcagtga gaatttcaag ccagtggtatc ttagcttgct ggggtccgtg ggggtgggac 660  
 ccgtgaacc agacactgga gaaaatttcc tgttctgtg gttgtgaaga ccatgggaaa 720  
 agtcagcat ctgggctaga gtgtactgtt ctcccgata atagattgtt gacagcaact 780

1000183.112001

gattctattc agttgtgggc tctccagga gatgatattc tggaagagga ggaagaaatt 840  
 gataatacag ttctctctgt tttaaatgat tggaagtgtg tctggcagtg caaaacctca 900  
 gtatctgtac atttgatgga atgggtctct gatggtgaat tttttgtac tgctggaaag 960  
 agtagggatc ggagaactgt ggccaagag ctaagaatgt tttttacctt tttaaagggg 1020  
 tgtagaagaaa aaagaagaat ctgtgtcata gacctgtgtg gccacaaag cctaacttat 1080  
 ttaccatctg gccctttgca gaaaaatttg ctgactcttg atatagagca agaaacaatt 1140  
 catgttctgt agacaatata ccatttgaaa aatttaagga aaggacagag gaggtcatct 1200  
 gttcttgtaa ctcatgtgta attaatgccc gaccagacag caatgcatga agttcaaaga 1260  
 cacatttccc accatgcaaa tgcactctgt cattttcata ttgcagcaag catcaacctt 1320  
 gccacagttt ttcacacctt caaacaacc cttaccatta ttaactccca cccaccacaa 1380  
 ggcaccgcca actccaagat acataaaact cctaccattg agatgtaagt ccacactcac 1440  
 agtaagaaaa gcagggaagg ggtagcattt gaataagttc ttttgtccac atgactgtgag 1500  
 aactacactg ttactgacta tgattcaatt ttttctacc tcccaaaagt ccactcgaga 1560  
 gtgtgtaata agcaaaaata atacatgaaa aaggaaactg acagtatgaa gaaagcttac 1620  
 agcaaaaaag tttaacctaa gtcaatgatg agtacggaaa tgttggaat aacctaataa 1680  
 cgactgcttg tgtggtaact aaagggactg ttaactctac caacaactca tatca 1735

<210> 67  
 <211> 253  
 <212> DNA  
 <213> Homo sapien

<400> 67  
 ccactctttct tgaaagatat acgcctgagt ctgtggcatg gctgtcatta aatttcctta 60  
 cagagattct aactccttgc tgtcaaaaca tagagcagat agagaaacat catctgactg 120  
 ccatttgggt gctctgatga tggaaaagct agggatgaat cattctccct ttctactcta 180  
 tactcccttg actgaatggg agtatctact gaatagtgag aagggcattt aagggattac 240  
 attttctcc taa 253

<210> 68  
 <211> 533  
 <212> DNA  
 <213> Homo sapien

<400> 68  
 actatttgac ttctccttt atgtccgtgc ctttctata aattgaaatt tgagttcaga 60  
 ggcttaactc agataaaact ttttggcaaa aagactacat aagtagtgct gtgtgcttca 120

ttttgccaaa tttcccttca cagggggttat acctgagaat gatgttaagc tttgagtttt 180  
 atggtgcagt tctaattgac atttatttaa ttttagtgat gtaagcagc ctttcatacg 240  
 cttaaagacc atttctgttt aagggtctatt aagcatatga aaggctgctt aacatcacta 300  
 aaaaaaaaaa aaaaataaaa aaaaaagggc tgggtgccca ttttttttcc ccgggggaatg 360  
 gccaaaaaaa aaaaaaaagg cgtgtccccc gcgggggggc ccgacaaaac caaatctcaa 420  
 accagggggg ggcgaataca ggagaccacc agccctggaa cccaacgggg gcggaaacag 480  
 ggcataaagg cctccccgtg ggtaaagtgg tccccgccca agtcccacaa tga 533

<210> 69  
 <211> 271  
 <212> DNA  
 <213> Homo sapien

<400> 69  
 cggccgaggt acaagctttt tttttttttt ttttttttgg gacaatttaa cccctttttt 60  
 ggaacaacaac atttccagaa gcacagaggg ttagtcgtga caacagcccc tcaatcacac 120  
 acaggggggg gcgcgcacca ctgaggggac gagggccagg cccctcagaa acaattatta 180  
 tacattttaa acgaggggct acgcggtgac cgttataaaa acacaaaagg gaccocggga 240  
 aacagcaaag tcaacaggga aagaagtggg t 271

<210> 70  
 <211> 643  
 <212> DNA  
 <213> Homo sapien

<400> 70  
 gaatctctgg gagaaggtcg tccaatcttg cgcgggtatc attggattat tgggtctatgt 60  
 tattattgaa tggaaggagt tctttatata tctatatgat agacgggtgga tatgtaattt 120  
 acagatatatt tgtggttgcc cttttaattt ttttgataat atcttttgat gccaaaagtg 180  
 tttttttaat tttgtgaag tccaatatat ctatctgtct tttgttcatt atgcctcaga 240  
 atgtcatatt taagaaatca ttgagcaate taaggtcaca aaagatttac actaatgttc 300  
 tttttttaag ttttgtagtt ttattcctta caattatgtc tttgatcaat tctgagttac 360  
 tttgtgtgtg tgtgagtggt tgtatgatgt tggatagggt ctaaatgcaa ctgttttaca 420  
 tatgaaaate cagttatccc agcactatat gttaggaagac aattacttcc ccaatttaatt 480  
 gttttggcat tttttggcag tgctgaaagc aaagcttaag gagcaggaca agtcatttag 540  
 gtgcctttga gtagaatact gaaaacgaga agctgcataa agagggccac caaataaagc 600  
 attgtaactt tatatatcca tagatgtatg tttttatttc tgt 643

<210> 71  
 <211> 645  
 <212> DNA  
 <213> Homo sapien

<400> 71  
 acagagaaaa gtgatgaaaa gttctaacat tttaaaacat attttctcaa aaatttggtg 60  
 tataatagtt ccttcgtctg gatcactgca gttcctctga ctgtatcttg agaatacttc 120  
 tgcccgacaa ggaagtatcg tattttactg ttataccgac ttggggattc tgttgcaaac 180  
 aatgcacaca caagagtagt ccctaacgtc actacactca tgtcaacggt agatatgggt 240  
 tgtaagttat cgatgcctgg ccttaagagt acacactgca acactgagaa gtacaaaccg 300  
 tgtcatgtac actgcacaaa ttgaagcctc tcttatctat cacatgggca tacttcaaca 360  
 cggatgcact agtgtagcta ctgacctat agtgaaaaca tacaatactg gctagcgctc 420  
 tcttgagtaa gttatgtgtt taaatcacca aagtttcata ccatactgaa tcggttgaaa 480  
 ctgtgtcaca gattgactat ggacatgaat agcgatatta atagacgaag ttaaaaatctc 540  
 ttgcacaaaa gtggattttc tgcattcctg tccacttcac gactcatggt tggttgtctca 600  
 atactcaaat caaaagcaag ttttaacaag gacaaattaa agtgt 645

<210> 72  
 <211> 150  
 <212> DNA  
 <213> Homo sapien

<400> 72  
 aattaacttt aagtgtgtgg atttattttt gggatctcta ttctgttagt atttgatga 60  
 tactattttg attactaaaa ctgacagta tattttcgaa gtccggtagt gtggaggtta 120  
 cagctttttc ctttgcttaa ggggctaggc 150

<210> 73  
 <211> 180  
 <212> DNA  
 <213> Homo sapien

<400> 73  
 taagtgtgat gtctttacaa aattttagta gtcatttgat caaattgta cttttgcccc 60  
 ggttcaatcc acctttccat gtcttctact gcttattgag tgaaatacac atatttttaa 120  
 actttctgaa aaatgcaccc catttcatgt atattttcaa gatattttggc atacatctgt 180

<210> 74  
 <211> 46  
 <212> PRT  
 <213> Homo sapien

1000183.112001

&lt;400&gt; 74

Met Thr Lys Asn Leu Lys Tyr Gln Ile Glu Tyr Leu Ile Leu Arg Ile  
 1 5 10 15

Ile Glu Lys Lys Val Trp Glu Arg Ile Phe Ile Ile His Ile Leu Phe  
 20 25 30

His Asn Val Asp Ser Ile Pro Tyr Gly Leu Leu Phe Asn Gln  
 35 40 45

&lt;210&gt; 75

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 75

Met Asn Met Leu Lys Asn Cys Tyr Val Ala Gly Thr Gly Ala Trp Asp  
 1 5 10 15

Trp Glu Tyr His Leu Pro Ile Ser Ala Tyr Arg Ile His Leu Gly Gly  
 20 25 30

Gln Met Asp Lys  
 35

&lt;210&gt; 76

&lt;211&gt; 62

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 76

Met Val Arg His Thr His Thr Trp Glu Pro Cys Val His Phe Ser Ser  
 1 5 10 15

Gln His Thr Leu Thr His Asn Ala Asn Ile Thr Phe Leu Phe His Leu  
 20 25 30

Phe Ile Thr His Gln Asp His Thr Lys Pro Gln Ser Phe Ile Ile Tyr  
 35 40 45

Ile Asn Thr Ser His Val Thr Lys Glu Thr His Ser Ala Thr  
 50 55 60

&lt;210&gt; 77

&lt;211&gt; 92

&lt;212&gt; PRT

1000183.112001

&lt;213&gt; Homo sapien

&lt;400&gt; 77

Met Ile Cys Tyr Ala Glu Asn His Lys Lys Ser Thr Lys Asp Leu Leu  
1 5 10 15

Asp Ile Ile Asn Glu Phe Phe Lys Val Ala Gly Cys Lys Phe Asn Thr  
20 25 30

Lys Tyr Ser Ile Val Cys Leu Tyr Ser Cys Asn Glu Gln Ser Arg Asn  
35 40 45

Gly Ile Lys Glu Ser Asn Ser Ile Tyr Asn Thr Thr Lys Ile Asn Lys  
50 55 60

Ile Leu Arg Asn Lys Phe Asn Lys Arg Thr Glu Lys Pro Ile Ile Trp  
65 70 75 80

Lys Pro Gln Asn Asn Val Tyr Arg Asn Lys Asn Thr  
85 90

&lt;210&gt; 78

&lt;211&gt; 154

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 78

Glu Ile Lys Gly Met Ala Asn Gly Lys Gly Lys Ile Lys Ile Ile Ser  
1 5 10 15

Ser Leu Ile Tyr Asn Asp Met Ile Cys Tyr Ala Glu Asn His Lys Lys  
20 25 30

Ser Thr Lys Asp Leu Leu Asp Ile Ile Asn Glu Phe Phe Lys Val Ala  
35 40 45

Gly Cys Lys Phe Asn Thr Lys Tyr Ser Ile Val Cys Leu Tyr Ser Cys  
50 55 60

Asn Glu Gln Ser Glu Met Glu Leu Arg Lys Ala Ile Pro Phe Thr Ile  
65 70 75 80

Gln Arg Lys Ala Ile Lys Tyr Leu Gly Ile Asn Leu Thr Lys Glu Leu  
85 90 95

Lys Asn Gln Ser Ser Gly Asn His Lys Ile Met Leu Gln Glu Ala Lys

1000183-112001

100

105

110

Tyr Leu Asn Lys Ala Lys Asp Ile Leu Tyr Ser Phe Ile Gly Arg Ile  
 115 120 125

Asn Ile Phe Lys Met Val Ile His Pro Lys Arg Ile Tyr Arg Leu Asp  
 130 135 140

Thr Ile Pro Asn Gln Ile Ser Pro Cys Phe  
 145 150

<210> 79  
 <211> 19  
 <212> PRT  
 <213> Homo sapien

<400> 79

Met Gln Val Ile Val Leu Gln Asp Cys Lys Val Ser Ile Glu Phe His  
 1 5 10 15

His Lys Val

<210> 80  
 <211> 43  
 <212> PRT  
 <213> Homo sapien

<400> 80

Met Glu Ile Ser Pro Asn Ser Ala Leu Thr Leu Phe Pro Ala Gln Val  
 1 5 10 15

Pro Tyr Leu Val Val Thr Trp Ser Lys Leu Lys Ser Asn Ser Pro Tyr  
 20 25 30

Ile Leu Glu Arg Thr Asn Gly Leu Val Leu Ile  
 35 40

<210> 81  
 <211> 122  
 <212> PRT  
 <213> Homo sapien

<400> 81

Met Pro Ser Pro Arg Pro Pro Leu Trp Trp Asp Phe Arg Asn Leu Leu  
 1 5 10 15

10001837.112001



Leu Ser Ala Pro Pro Ala Arg Phe Arg Gly Gly Ala Ala Gly Phe Pro  
20 25 30

Ser Arg Gly Pro Gln Trp Gly Ser Arg Pro Ser Gly Arg Val Tyr Pro  
35 40 45

Pro Pro Trp Thr Pro Pro Val Ser Pro Leu Leu Asp Ala Cys Ala Phe  
50 55 60

Gly Pro Trp His Ser Phe Ser Pro Pro Gly Phe Ser Phe Ser Gly Ser  
65 70 75 80

Pro Phe Ala Gln Asp Thr Arg Glu Ile Phe Leu Arg Ala Pro His Leu  
85 90 95

Leu Arg Trp Pro Ser Thr His Ser Trp Ala Phe Gly Cys Leu Ser Ile  
100 105 110

Leu Leu Leu Trp Cys Arg Gln Ser Thr Val  
115 120

<210> 82

<211> 63

<212> PRT

<213> Homo sapien

<400> 82

Met Ile Ser Asn Phe Leu Ser Thr Leu Met Phe Ser Ser Tyr Ala Pro  
1 5 10 15

Val Val His Phe Phe Asn Val Val Leu Pro Leu Asn Gln Glu Ile Tyr  
20 25 30

Leu Ala Lys Lys Thr Lys Asp Phe Thr Cys Ile Tyr Phe Ile Ile Phe  
35 40 45

Asp Ser Ser Thr Ile His Arg Val Ser Ile Phe Pro Gly Lys Ser  
50 55 60

<210> 83

<211> 53

<212> PRT

<213> Homo sapien

<400> 83

Met Leu Ala Ala Ser Val Tyr Gly Ile Ala Asp Ser Gly Ser Thr Ala  
1 5 10 15

1000183-112001

Ala Arg Ala Val His Ile Ser His Tyr Trp Met Gly Ala Val Ser Lys  
20 25 30

Leu Ser Cys Lys Lys Arg Arg Asp Thr Thr Cys Tyr Cys Ser His His  
35 40 45

Cys Asn Lys Ile Glu  
50

<210> 84  
<211> 51  
<212> PRT  
<213> Homo sapien

<400> 84

Met Asn Phe Glu Lys Ile Asp Phe Leu Arg Ile Pro Trp Lys Thr Gly  
1 5 10 15

Asp Val Lys His Ser Tyr Val Leu Val Gln Ile Asn Met Thr Gln Val  
20 25 30

Asn His Ile Leu Leu Ser Lys Ser Leu His Pro Glu Arg Gly Gln Leu  
35 40 45

Leu Ile Ile  
50

<210> 85  
<211> 100  
<212> PRT  
<213> Homo sapien

<400> 85

Met Tyr Arg Asn Ala Thr Asp Phe Phe Met Leu Ile Leu His Leu Ala  
1 5 10 15

Met Leu Leu Tyr Leu Phe Ile Ser Ser Asn Arg Phe Cys Cys Cys Arg  
20 25 30

Cys Cys Cys Cys His Tyr Cys Trp Gly Gly Val Phe Leu Ser Asn Phe  
35 40 45

Leu Leu Ile Arg Leu Cys Tyr Leu Cys Thr Glu Ile Ile Leu Leu Leu  
50 55 60

10001883.112001

Pro Phe Gln Phe Arg Cys Leu Leu Phe Leu Val Ser Cys Leu Ile Val  
65 70 75 80

Met Val Arg Ile Ser His Ser Met Leu Asn Arg Ser Gly Gly Val Gly  
85 90 95

Ile Leu Ala Leu  
100

<210> 86  
<211> 124  
<212> PRT  
<213> Homo sapien

<400> 86

Met Val Tyr Gly Cys Phe Phe Pro Lys Lys Arg Gly Met Cys Leu Ala  
1 5 10 15

Lys Ala Glu Leu Lys Phe Gly Val Asn Pro Pro Thr Gly Phe Phe Thr  
20 25 30

Gln Val His Arg His Gly Val Cys Lys Thr Arg Pro Arg Ala Gln Leu  
35 40 45

Arg Ile Val Lys Leu Pro Asn Leu Thr Leu Leu Trp Gly Arg Lys Ile  
50 55 60

Gly Ala Pro Ser Leu Lys Glu Pro Ile Ala Ser Glu Ala Gly Ala Pro  
65 70 75 80

Thr Thr Val Glu Trp Glu Lys Ser Leu Pro Arg Asn Ser Arg Pro Tyr  
85 90 95

Ser Cys Trp Phe Ser Arg Ala Pro Lys Val Thr Tyr Glu Ile Leu Leu  
100 105 110

Ile His Val Ala Pro Lys Pro Asn Gly Lys Met Val  
115 120

<210> 87  
<211> 29  
<212> PRT  
<213> Homo sapien

<400> 87

Met Cys Asn Phe Ile Phe Leu Leu Tyr Tyr Arg Lys Ile Gly Gly Val  
1 5 10 15

1000183.112001

Gln Phe Leu Tyr Asn Ser Leu Leu Tyr Leu Asp Ile Phe  
20 25

<210> 88  
<211> 39  
<212> PRT  
<213> Homo sapien  
  
<400> 88

Met Tyr Ser Leu Gly Lys Ile Arg Thr Met Cys Ser Gln Tyr Leu Gln  
1 5 10 15

Asn Leu Lys Leu Lys Arg Thr Thr Ser Ile Ser Val Val Ala Gly Phe  
20 25 30

Leu Ala Phe Tyr Gly Cys Lys  
35

<210> 89  
<211> 39  
<212> PRT  
<213> Homo sapien  
  
<400> 89

Met Thr Glu Pro Val Val Pro Pro Leu Pro Pro Phe Val Gly Pro Pro  
1 5 10 15

Asn Leu Glu Met Tyr Glu Gly Leu Leu Val Ser Leu Gly Asp Gly Trp  
20 25 30

Arg Gln Asn Arg Ala Tyr Leu  
35

<210> 90  
<211> 155  
<212> PRT  
<213> Homo sapien  
  
<400> 90

Met Ala Asp Ile His Gln Ser Ser Gln Glu Phe Gln Gly His Leu Pro  
1 5 10 15

Ser Phe Phe Tyr Pro Arg Pro Gly Asp Gln Ser Phe Pro Phe Ser Leu  
20 25 30

Lys Gln Thr Trp His Ala Asn Val Thr Pro Cys Gly Gln Phe Gln Tyr

1000183.112001

35

40

45

His Gly Ala Leu Ala Arg Arg Leu Ile Leu Cys Leu Asp Trp Leu His  
50 55 60

Gly Ile Ser His Ser Asp Ala Arg Gln Gly His Ala Asp Phe Pro Ile  
65 70 75 80

Gly Trp Val Tyr Cys Leu Ala Val Gln Pro Cys Asn Arg Val Ala Asn  
85 90 95

Asp Gly Asp Thr Pro Val Thr Arg Ser His Val Val Asp Thr Val Lys  
100 105 110

Ala Ser His Leu Ser His His Gly Arg Ser Cys His Val Glu Cys Leu  
115 120 125

His Arg Cys Met Phe Asp Thr Ile Cys Thr Ser Val Cys Asn Arg Ser  
130 135 140

Leu Val Ala Thr Gly Asp His His Thr Arg Val  
145 150 155

<210> 91

<211> 97

<212> PRT

<213> Homo sapien

<400> 91

Met Ala Tyr Phe Val Phe Trp Ala Cys Val Ser Thr Ser Thr Asp Ala  
1 5 10 15

Asn Val Arg His Gly Leu Trp Cys Gly Ala Asn Ile Gln Ala Ile Gln  
20 25 30

Arg Gln His Val Phe Gln Lys Ala Ser Leu Ala Gln Ser Gly Glu Ser  
35 40 45

Pro Pro Thr Ser Asn Ile Leu Arg Asn Ser Ser Thr Gln Leu Cys Ala  
50 55 60

Val Pro Gly Arg Gly Gly Arg Ser Lys Ser Arg Ile Leu Gly Asn Ile  
65 70 75 80

Pro His Thr Gly Ala Ala Arg Arg Ala Trp Ser Arg Gly Pro Ile Arg  
85 90 95

1000163-112004

Leu

<210> 92  
 <211> 39  
 <212> PRT  
 <213> Homo sapien  
 <400> 92

Met Lys Ile Asp Leu His Lys Ser Ile Ser Ser Glu Ser Tyr Arg Thr  
 1 5 10 15

Leu Gly Gln Arg Arg Cys Met Lys Leu Pro Glu Arg Glu Asn Arg Ser  
 20 25 30

His Val Lys Glu Gln Lys Ser  
 35

<210> 93  
 <211> 130  
 <212> PRT  
 <213> Homo sapien  
 <400> 93

Met Gly Pro Trp Gly Phe Gly Ala Met Ser Gly Trp Ala Lys Asn Lys  
 1 5 10 15

Thr Lys Phe Gly Lys Ile Met Ala Arg Lys Lys Ile Phe Ser Thr Arg  
 20 25 30

Ala Leu Lys Val Ala Pro Pro Leu Gly Ala Leu Gly Gly Val Thr Arg  
 35 40 45

Gly Leu Pro Cys Met His Pro Gly Gly Gly Lys Asn Trp Gly Gly Gly  
 50 55 60

Glu Gly Asp Pro Trp Gly Gly Arg Gly Gly Phe Gln Gln Lys Thr Lys  
 65 70 75 80

Lys Gly Pro Ser Ser Lys Pro His Ile Leu Arg Gly Gly Gly Arg Pro  
 85 90 95

Pro Val Pro Gly Gly Gly Pro Ile Ala Ser Gly Arg Pro Gly Gly Val  
 100 105 110

1000183.112001

Gln Gly Gly Gly Val Val Leu Thr Thr Val Phe Leu Ala Pro Lys Val  
 115 120 125

Arg Gly  
 130

<210> 94  
 <211> 23  
 <212> PRT  
 <213> Homo sapien  
 <400> 94

Met Ser Phe Ser Leu Gly Val Phe Ser Gly Leu Val Asp Lys Gly Leu  
 1 5 10 15

Tyr Tyr Ile Cys His Trp Tyr  
 20

<210> 95  
 <211> 30  
 <212> PRT  
 <213> Homo sapien  
 <400> 95

Met Gly Gly Val Arg Gly Cys Thr Pro Leu Phe Pro Trp Ala Gly Ser  
 1 5 10 15

Ala Cys Leu Ile Ile Phe Ile Phe Trp Gly Arg Thr Arg Val  
 20 25 30

<210> 96  
 <211> 32  
 <212> PRT  
 <213> Homo sapien  
 <400> 96

Met Arg Ser Ser Ile Ser Asp Lys Lys Leu Gly Ser Gln Leu Lys Cys  
 1 5 10 15

Ala Val Ser Thr His Gln Ile Leu Arg Thr Tyr Arg Ser Ala Pro Val  
 20 25 30

<210> 97  
 <211> 50  
 <212> PRT  
 <213> Homo sapien  
 <400> 97

10001883.112001

Met Gly Ile Ala Arg Ile Arg Leu Ser Val Val Pro Ala Glu Gly Thr  
1 5 10 15

Arg Arg Ala Pro Pro Glu Arg Glu Arg Asp Phe Gly Glu Gly Ala Glu  
20 25 30

Arg Gly Gly Pro Glu Ala Gln Arg Pro Pro Ser Pro Thr Gly Phe Gln  
35 40 45

Val Pro  
50

<210> 98  
<211> 91  
<212> PRT  
<213> Homo sapien

<400> 98

Met Asp Pro Pro Val Gly Pro Val Leu Ser Pro Gly Ile Gly Gly Ala  
1 5 10 15

Met Leu Ser Pro Gln Thr Pro Thr Met Arg Gly Gly Glu Arg Asn Leu  
20 25 30

Gly Gly Gly Tyr Ile Leu Phe Pro Phe Pro Leu Cys Phe Lys Trp Trp  
35 40 45

Ser Pro Thr Leu Asp Phe Gly Gln Gly Leu Leu Val Leu Ala Gly Gly  
50 55 60

Ala Val Gln Lys Gln Ile Ser Thr Thr Trp Gly Gly Val Asn Arg Gly  
65 70 75 80

Pro Ser Ser Asp His Val Gly Arg Leu Arg Ala  
85 90

<210> 99  
<211> 56  
<212> PRT  
<213> Homo sapien

<400> 99

Met Tyr Lys Ile Ala Ser Ile Ile Lys Lys Asn Ser Gln Glu Ile Lys  
1 5 10 15

Arg Pro Gly Pro Asp Gly Phe Thr Asp Glu Phe Tyr Gln Thr Tyr Glu  
20 25 30

10001837.112001



Glu His Gln Leu Leu Leu Asn Asn Ser Lys Asn Thr Asn Arg Ser Glu  
35 40 45

Phe Phe Leu Thr Pro Ser Met Arg  
50 55

<210> 100

<211> 100

<212> PRT

<213> Homo sapien

<400> 100

Ser Val Pro Arg Leu Asn Ala Lys Glu Ile Glu Asn Leu Asn Arg Thr  
1 5 10 15

Asn Arg Met Tyr Lys Ile Ala Ser Ile Ile Lys Lys Asn Ser Gln Glu  
20 25 30

Ile Lys Arg Pro Gly Pro Asp Gly Phe Thr Asp Glu Phe Tyr Gln Thr  
35 40 45

Tyr Lys Glu Asp Trp Val Pro Ile Leu Leu Lys Leu Phe Gln Arg Val  
50 55 60

Glu Glu Glu Gly Leu Leu Pro Lys Thr Phe Tyr Glu Ala Thr Ile Thr  
65 70 75 80

Leu Ile Pro Lys Pro Gly Arg Asp Thr Thr Lys Lys Glu Asn Tyr Arg  
85 90 95

Gln Thr Ala Leu  
100

<210> 101

<211> 67

<212> PRT

<213> Homo sapien

<400> 101

Met Thr Leu Thr Cys Phe Pro Leu Ser Ser Tyr Lys Lys Arg Phe Phe  
1 5 10 15

Leu Phe Gln Phe Cys Tyr Ser Cys Val Phe Phe Ser Ser Trp Cys Asp  
20 25 30

10001833-112001

Ile Ile Ser His Thr Pro Glu His Phe Pro Val Thr Lys Leu Ile Gly  
35 40 45

Leu Ser Thr Ile Phe Lys Val Met Cys Tyr Leu Val Thr His Trp Leu  
50 55 60

Tyr Thr Ala  
65

<210> 102  
<211> 38  
<212> PRT  
<213> Homo sapien

<400> 102

Met Asn Asn Pro Ala Ser Ile Lys Tyr Ile Lys Ser Asn Asn Leu Lys  
1 5 10 15

Leu Thr Tyr Lys Asn Asn Ser Arg Ser Gly Arg Phe His Ser Cys Ile  
20 25 30

Leu Thr Ile Phe Lys Glu  
35

<210> 103  
<211> 36  
<212> PRT  
<213> Homo sapien

<400> 103

Met Pro Gly Leu Leu Leu His Val Phe Leu Pro Thr Ile Phe Gly Trp  
1 5 10 15

Val Ser Arg Lys Lys Ile Phe Lys Ile Lys Lys Lys Lys Lys Lys  
20 25 30

Lys Lys Ala Cys  
35

<210> 104  
<211> 44  
<212> PRT  
<213> Homo sapien

<400> 104

Met Val Trp Glu Asn His Glu Gln Phe Gly Val Leu Leu Ile Thr Pro  
1 5 10 15

10001883-112001

Leu Gly Ala Cys Tyr His Leu Tyr Leu Val Leu Lys Lys Val Lys Asn  
 20 25 30

Trp Gly Gln Lys Lys Lys Lys Lys Lys Lys Ala Leu  
 35 40

<210> 105

<211> 38

<212> PRT

<213> Homo sapien

<400> 105

Met Cys Val Leu Leu Lys Asn Leu Gly Gly Tyr Arg Ile Phe Ala Leu  
 1 5 10 15

Lys Ile Lys Met Leu Met Arg Lys Leu Gly Ile Glu Gln Thr Thr Gln  
 20 25 30

Thr Ile Asp Leu Phe Asn  
 35

<210> 106

<211> 21

<212> PRT

<213> Homo sapien

<400> 106

Met Ile Pro Val Cys Phe Ser Arg Gln Pro Pro Leu Pro Ala Leu Ala  
 1 5 10 15

Gly Val Leu Trp Trp  
 20

<210> 107

<211> 133

<212> PRT

<213> Homo sapien

<400> 107

Met Ala Pro Pro Asn Phe Val Ala Leu Met Gly Gly Gly Phe Gln Val  
 1 5 10 15

Gly Gly Cys Ala Gly Ser Cys Ile Pro Gly Asp Arg Val Arg Glu Gln  
 20 25 30

Asp Gly Leu Trp Val Trp Glu Gly Lys Pro Glu Val Gly Arg Ser Gly  
 35 40 45

10001883-112001

Lys Gly Ser Leu His Glu Glu Lys Pro Arg Thr Gly Gly Pro Thr Ala  
50 55 60

Phe Glu Lys Pro Arg Lys Ser Ala Gly Ser Arg Gly Gly Pro Pro Thr  
65 70 75 80

Arg Leu Leu Glu Gly Gly Pro Pro His Leu Gly Ser Ile Gly Gly Pro  
85 90 95

Gly Ala Gly Lys Gly Pro Trp Arg Gly Val Met Gly Asp Thr Cys Ala  
100 105 110

Pro Gly Ala Gly Arg Pro Gln Asn Ala Arg Asn Leu Gln Ala Thr Arg  
115 120 125

Gly Gly Pro Val Thr  
130

<210> 108

<211> 79

<212> PRT

<213> Homo sapien

<400> 108

Met Ser Ala Lys Lys Leu Ile Asn Phe Val Ser Val Thr Gln Glu Ser Ser  
1 5 10 15

Ile Ser Tyr Ser Asn Leu Val Gln Ser Thr Met Ser Thr His Asn Asn  
20 25 30

Ser Lys Tyr Tyr Met Asn Lys Phe Ala Gln Val Leu Gly Ala Asn His  
35 40 45

Ile Arg Glu Asn Asn Val Asn Cys Thr Gln Ser Met Cys Ser Pro Lys  
50 55 60

Cys Ile Cys Leu Ser Asn Ala Thr Trp Lys Pro Arg Gly Tyr Ala  
65 70 75

<210> 109

<211> 31

<212> PRT

<213> Homo sapien

<400> 109

100183.112001

Met Asn Phe Lys Lys Asp Thr Ala Leu Ile Ser Val Thr Trp Glu Ile  
1 5 10 15

Pro Arg Val Leu Gly Ala Leu Trp Gln Glu Lys Ser Asn Ile  
20 25 30

<210> 110

<211> 57

<212> PRT

<213> Homo sapien

<400> 110

Met Pro Gly Gly Ser Pro Pro Thr Phe Tyr Arg Pro Asn Phe Ser Leu  
1 5 10 15

Pro Asn Met Gly Ser Val Phe Pro Ser Arg Ala Ala Lys Asp Asp Cys  
20 25 30

Thr Glu Gly Gly Gly Arg Gly Gly Pro Arg Gly Pro Val Met Ser Trp  
35 40 45

Glu Gly Arg Gly Gly Ala Pro Arg His  
50 55

<210> 111

<211> 57

<212> PRT

<213> Homo sapien

<400> 111

Met Lys Arg Gly Leu Lys Phe Phe Lys Ser Arg Leu Leu Asp Asn Ala  
1 5 10 15

Arg Gly Phe Gly Asn Ile Pro Tyr Leu Lys Ile Gly Asn Leu Ala Val  
20 25 30

Gly Tyr Met Gly Glu Val Thr Pro Leu Val Gly Val Gly Trp Phe Gly  
35 40 45

Pro Val Phe Pro Pro Lys Gly Trp Phe  
50 55

<210> 112

<211> 34

<212> PRT

<213> Homo sapien

<400> 112

1000183.112001

Met Ser Glu Ile Arg Gln Ser Lys Met His Thr Lys Thr Leu Ile His  
1 5 10 15

Leu Trp Gly Asn His Ser Ile Ser Ser Ser Leu Phe Asn Tyr Asn Ile  
20 25 30

Lys Lys

<210> 113  
<211> 155  
<212> PRT  
<213> Homo sapien

<400> 113

Met Gly Phe Val Ala Arg Asn Pro Val Pro Thr Leu Pro Gly Ala Gly  
1 5 10 15

Arg Ser Lys Ala Pro Glu Phe Leu Ala Arg Phe Leu His Ser Pro Leu  
20 25 30

Val Arg Pro Val Gln Thr Asn Ala Phe Tyr Glu Gly Ala Gln Phe Gln  
35 40 45

Pro Leu Ile Arg Asp Val Gly Ile Ile Pro Asn Pro Arg Trp Pro Gly  
50 55 60

Ser Leu Leu Thr Asn Ala Phe Cys Arg Leu Val Glu Asn Asn His Leu  
65 70 75 80

Ala Ser Val Asn Pro Gln Arg Leu Arg Ser Ala Leu Cys Gln Thr Thr  
85 90 95

Phe Pro Thr Leu Phe Val Thr His Thr Asp Thr Thr Thr Thr Val His  
100 105 110

Glu Thr Asn Asp Thr Asn Asp Asn Arg His Thr Ala Asp Pro Glu Gln  
115 120 125

Arg Arg Tyr Glu Gly Arg Glu Pro Ala Arg Pro Thr Ala Pro Arg Ala  
130 135 140

Gly Arg His Gln Thr Thr Asn Asn Thr Lys Lys  
145 150 155

10001883.112001

<210> 114  
 <211> 87  
 <212> PRT  
 <213> Homo sapien

<400> 114

Met Glu Ser Arg His Ser Val Lys Gly Ser Pro Arg Tyr Ala Leu Ser  
 1 5 10 15

Ala Ala Pro Pro Gln His Glu Gly Ala Arg Gly Ser Ser Ala Gly Ala  
 20 25 30

Arg Lys Gly His Glu Glu Glu Arg Gly Thr Pro Arg Ser Phe Gly Gly  
 35 40 45

Ser Cys His Asn Pro Leu Ala Pro Arg Pro Cys Ala Arg Gly Pro Val  
 50 55 60

Pro Pro Thr Pro Ala Val Pro Pro Val Val Leu Thr Arg Phe His Ala  
 65 70 75 80

Pro Met Ala Ile Pro Leu Ala  
 85

<210> 115  
 <211> 39  
 <212> PRT  
 <213> Homo sapien

<400> 115

Met Val Ser Val Thr Ser Arg Leu His Val Tyr Ile Ser Cys Trp Gln  
 1 5 10 15

Tyr Cys Thr Lys Val Ser Pro Phe Asn Lys Gln Arg Val Lys Leu Gly  
 20 25 30

Glu Gly Gln Arg Gly Ile Tyr  
 35

<210> 116  
 <211> 83  
 <212> PRT  
 <213> Homo sapien

<400> 116

Met Gln Thr Leu Cys Gln Lys Lys Ile Pro Trp Ile Ile Ser Leu Lys  
 1 5 10 15

1000183.1.12001

Asn Thr Lys Gln Gln Ser Ser Leu Lys Lys Lys Leu Val Phe Leu Asn  
20 25 30

Asn Thr Glu Tyr Phe Asp Leu Lys Asn Lys Gln Asn Thr Leu Ser Ser  
35 40 45

Lys Ile Thr Ser Gly Leu Asp Gly Phe Thr Glu Asp Phe Tyr Gln Thr  
50 55 60

Leu Lys Gly Glu Thr Leu Ile His Leu Leu Asn Ile Tyr Leu Asn Ile  
65 70 75 80

Lys Tyr Lys

<210> 117

<211> 60

<212> PRT

<213> Homo sapien

<400> 117

Met Ser Ala Gln Val Leu Val Ser Arg Thr Pro Ser Gly Phe Thr Ser  
1 5 10 15

Asp Pro Phe Leu Pro Ser Arg Pro Pro His Asn Leu Leu Gly Thr Tyr  
20 25 30

Ser Ala Leu Arg Gln Ser Gln Leu Val Pro Asp Ser Ala Cys His Leu  
35 40 45

Thr Ala Pro Val Leu Ser Met Gly Lys Ile Asn Gly  
50 55 60

<210> 118

<211> 47

<212> PRT

<213> Homo sapien

<400> 118

Met Leu Gly Glu Lys Leu Cys Val Phe Lys Phe Asp Lys His Val Leu  
1 5 10 15

Ile Tyr Ile Glu Ile Leu Cys Met Tyr Ser Pro Thr Leu Phe Trp Asn  
20 25 30

Asn Gly Ile Asn Ser Tyr Phe Phe Leu Leu Phe Phe Phe Phe Gly

10001583.112001



35

40

45

<210> 119  
 <211> 31  
 <212> PRT  
 <213> Homo sapien

<400> 119

Met His Lys His Thr His Thr Gln Arg Tyr Trp Leu Cys His Ser Ser  
 1 5 10 15

Leu Thr Tyr Tyr Ser Val Ser Leu Cys Ile Ser His Ile Val Leu  
 20 25 30

<210> 120  
 <211> 49  
 <212> PRT  
 <213> Homo sapien

<400> 120

Met Trp Ser Phe Leu Ile Thr Ser His Lys Leu His Ser Phe Leu His  
 1 5 10 15

Lys Cys Pro Ala Gln Ile Leu Arg Asp Phe Phe Leu Gly Val Cys Val  
 20 25 30

Cys Val Cys Leu Cys Val Cys Val Cys Val Tyr Leu Cys Lys Phe Glu  
 35 40 45

Trp

<210> 121  
 <211> 36  
 <212> PRT  
 <213> Homo sapien

<400> 121

Met Asn Ile Ala Arg Ser Gln Asn Thr Lys Leu Ile His Tyr Asn Gln  
 1 5 10 15

Phe Tyr Phe Tyr Thr Leu Thr Thr Asn Asn Gly Thr Lys Lys Phe Lys  
 20 25 30

Thr Ser Ala Leu  
 35

10001883.112001

<210> 122  
 <211> 46  
 <212> PRT  
 <213> Homo sapien

<400> 122

Met Pro Val Ser Ile Asn Ile Lys Glu Thr Glu Ser Ile Ile Asn Lys  
 1 5 10 15

Leu Ser Lys Lys Lys Ala Leu Ser Pro Ser Gly Glu Leu Tyr Gln Thr  
 20 25 30

Leu Lys Asp Lys Met Ile Pro Met Ser Leu Gln Ser Leu Pro  
 35 40 45

<210> 123  
 <211> 42  
 <212> PRT  
 <213> Homo sapien

<400> 123

Met Glu Leu Tyr Glu Trp Pro Leu Thr Ser Phe Phe Thr Arg Ala Leu  
 1 5 10 15

Arg Tyr Lys Ala Ser Ser Ser Met Cys Leu Ala Pro Pro Glu Leu Asn  
 20 25 30

Ser Tyr Pro Pro Glu Gly Cys Leu Glu Arg  
 35 40

<210> 124  
 <211> 20  
 <212> PRT  
 <213> Homo sapien

<400> 124

Met Ala Pro Gly Gly Pro Arg Ile Gly Asp His Trp Arg Pro Pro Gly  
 1 5 10 15

Pro Gly Leu Gly  
 20

<210> 125  
 <211> 32  
 <212> PRT  
 <213> Homo sapien

<400> 125

10001837.12001

Met Ser Asn Leu Tyr Trp Gly Lys Arg Gly Glu Lys Lys Thr Thr Lys  
1 5 10 15

Thr Thr Pro Phe Gly Gly Lys Lys Lys Lys Lys Lys Lys Asn Leu  
20 25 30

<210> 126

<211> 53

<212> PRT

<213> Homo sapien

<400> 126

Met Arg Arg Leu Gly Gln Tyr Asn Thr Ser Gln Asp Val Leu Ser Asn  
1 5 10 15

Gln Tyr Phe Leu Leu Thr Phe Ser Ile Ala Ile Lys Asn Ile Ile Val  
20 25 30

Leu Pro Gly Glu Ala Leu Ser Ser Trp Pro Leu Asp Gly Asp Phe Glu  
35 40 45

Glu Val Asp Pro Met  
50

<210> 127

<211> 56

<212> PRT

<213> Homo sapien

<400> 127

Met Ala Phe Tyr Cys Leu Cys Leu Pro Phe Phe Asn Tyr Met Trp Thr  
1 5 10 15

Ser Phe Leu Cys Val Leu Leu Ala Val Ser Ile Ser Phe Ser Ala Asn  
20 25 30

Cys Leu Phe Leu Ser Phe Phe Ile Phe Leu Leu Gly Cys His Leu Phe  
35 40 45

Trp Leu Lys Arg Lys Leu Gly Lys  
50 55

<210> 128

<211> 16

<212> PRT

<213> Homo sapien

<400> 128

10001883.112001

Met Ser Thr Leu His Ala Tyr Leu Asn Met Leu Ile Tyr Lys Asn Ile  
1 5 10 15

<210> 129  
<211> 18  
<212> PRT  
<213> Homo sapien

<400> 129

Met Arg Leu Asp Phe Trp Leu Leu Leu Ile Leu Gly Ala Arg Ser Ser  
1 5 10 15

Gln Ala

<210> 130  
<211> 43  
<212> PRT  
<213> Homo sapien

<400> 130

Met Val Cys Phe Lys Asp Ile Ile Val Ser Val Leu Leu His Lys Lys  
1 5 10 15

Thr Leu Tyr Phe Asn Phe Phe Ser Pro Ile Phe Phe Cys Phe Glu Leu  
20 25 30

Thr Ala Tyr Ile Phe Cys Tyr Cys Val Phe Ile  
35 40

<210> 131  
<211> 31  
<212> PRT  
<213> Homo sapien

<400> 131

Met Arg Cys Ile Ser Cys Leu Phe Tyr Val Asn Glu Asn Pro Asn Val  
1 5 10 15

Glu Ala His Leu Phe Ala Ile Leu Leu Thr Leu Gln Leu Ser Arg  
20 25 30

<210> 132  
<211> 64  
<212> PRT  
<213> Homo sapien

<400> 132

10001883.112001

Met Ala Val Ile Lys Phe Pro Tyr Arg Asp Ser Asn Ser Leu Leu Ser  
1 5 10 15

Lys His Arg Ala Asp Arg Glu Thr Ser Ser Asp Cys His Leu Val Ala  
20 25 30

Leu Met Met Glu Lys Leu Gly Met Asn His Ser Pro Phe Pro Thr Tyr  
35 40 45

Thr Pro Leu Thr Glu Trp Glu Tyr Leu Leu Asn Ser Glu Lys Gly Ile  
50 55 60

<210> 133

<211> 98

<212> PRT

<213> Homo sapien

<400> 133

Met Leu Lys Ser His Phe Cys Leu Arg Ala Ile Lys His Met Lys Gly  
1 5 10 15

Cys Leu Thr Ser Leu Lys Lys Lys Lys Asn Lys Lys Lys Lys Gly Trp  
20 25 30

Cys Pro Ile Phe Phe Pro Arg Gly Met Ala Lys Lys Lys Lys Lys Gly  
35 40 45

Val Ser Pro Ala Gly Gly Pro Asp Lys Thr Lys Ser Gln Thr Arg Gly  
50 55 60

Gly Arg Asn Lys Glu Thr Thr Ser Pro Gly Thr Gln Arg Gly Arg Lys  
65 70 75 80

Gln Gly Lys Lys Ala Ser Pro Trp Val Lys Trp Ser Arg Pro Lys Ser  
85 90 95

His Asn

<210> 134

<211> 24

<212> PRT

<213> Homo sapien

<400> 134

Met Phe Val Ser Lys Lys Gly Val Lys Leu Ser Gln Lys Lys Lys Lys

10001833.112001

1 5 10 15

Lys Lys Lys Leu Val Pro Arg Pro  
20

<210> 135  
<211> 46  
<212> PRT  
<213> Homo sapien

<400> 135

Met Leu Leu Leu Asn Gly Arg Ser Ser Leu Tyr Ile Tyr Met Ile Asp  
1 5 10 15

Gly Gly Tyr Val Ile Tyr Arg Tyr Phe Val Val Ala Leu Leu Ile Phe  
20 25 30

Leu Ile Ile Ser Phe Asp Ala Lys Ser Val Phe Leu Ile Leu  
35 40 45

<210> 136  
<211> 65  
<212> PRT  
<213> Homo sapien

<400> 136

Met Ser Val Val Thr Leu Gly Thr Thr Leu Val Cys Ala Leu Phe Ala  
1 5 10 15

Thr Glu Ser Pro Ser Arg Tyr Asn Ser Lys Ile Arg Tyr Phe Leu Val  
20 25 30

Gly Gln Glu Asp Ser Gln Asp Thr Val Arg Gly Thr Ala Val Ile Gln  
35 40 45

Thr Lys Glu Leu Leu Tyr Asn Lys Phe Leu Arg Lys Tyr Val Leu Lys  
50 55 60

Cys  
65

<210> 137  
<211> 57  
<212> PRT  
<213> Homo sapien

<400> 137

1000183.112001

Met Ser Leu Gln Asn Phe Ser Ser His Leu Ile Lys Leu Leu Leu Leu  
 1 5 10 15

Pro Arg Phe Asn Pro Pro Phe His Val Phe Tyr Cys Leu Leu Ser Glu  
 20 25 30

Ile His Ile Phe Leu Asn Phe Leu Lys Asn Ala Ser His Phe Met Tyr  
 35 40 45

Ile Phe Lys Ile Phe Gly Ile His Leu  
 50 55

1000183.112001